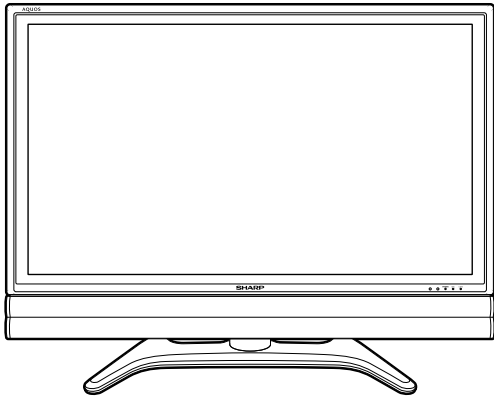


**SHARP**

# SERVICE MANUAL

SY4B6LC45GD6U



## LCD COLOR TELEVISION

**MODEL LC-45GD6U**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

### OUTLINE

This model is based on the LC-45GD4U and is equipped with a redesigned speaker. This Service Manual covers the modifications alone. For the other points, refer to the LC-45GD4U Service Manual.

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## LIST OF CHANGED PARTS

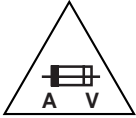
Ref.No.	Description	LC-45GD4U	LC-45GD6U	Note
<b>PWB ASSEMBLIES</b>				
	HDMI/DVI Unit	DUNTKC267VJ59	DUNTKC267VJ60	No parts changed
	DIGITAL Unit	DKEYDC307VJ37	DKEYDC307VJ38	No parts changed
	INVERTER-1 Unit	DUNTKC471UJ05	DUNTKC471UJ06	No parts changed
	INVERTER-2 Unit	DUNTKC472UJ05	DUNTKC472UJ06	No parts changed
	INVERTER-3 Unit	DUNTKC473UJ05	DUNTKC473UJ06	No parts changed
	INVERTER-4 Unit	DUNTKC474UJ05	DUNTKC474UJ06	No parts changed
	PC CARD Unit	DUNTKC544VJ06	←	—
	TOP LCD CONTROLLER Unit	DUNTKD001UJ01	DUNTKD001UJ02	Parts changed
	BOTTOM LCD CONTROLLER Unit	DUNTKD002UJ01	DUNTKD002UJ02	No parts changed
	MAIN Unit	DUNTKD003VJ01	DUNTKD003VJ02	No parts changed
	DC/DC1 Unit	DUNTKD004VJ01	DUNTKD004VJ02	No parts changed
	DC/DC2 Unit	DUNTKD005UJ01	DUNTKD005UJ02	No parts changed
	AV Unit	DUNTKD006VJ01	DUNTKD006VJ02	No parts changed
	AV SUB Unit	DUNTKD007UJ01	DUNTKD007UJ02	No parts changed
	SP-T Unit	DUNTKD008UJ01	DUNTKD008UJ02	Parts changed
	AC-INLET Unit	DUNTKD009UJ01	DUNTKD009UJ02	No parts changed
	KEY_U Unit	DUNTKD010UJ01	DUNTKD010UJ02	No parts changed
	R/C, LED Unit	DUNTKD011UJ01	DUNTKD011UJ02	No parts changed
	POWER Unit	RDENCA085WJZZ	←	—
	1BIT AMP Unit	B2SX4102BT	←	—
<b>LCD PANEL</b>				
	45" Wide LCD Panel Unit	RLCDA030WJZZ	←	—
<b>TOP LCD CONTROLLER Unit</b>				
R2209	Metal Oxide	VRS-CY1JF223JY	VRS-CY1JF103JY	—
R2215	Metal Oxide	—	VRS-CY1JF223JY	—
<b>SP-T Unit</b>				
J203	Terminal, 4Pin	QTANAA003WJZZ	QTANAA004WJZZ	—
<b>CABINET AND MECHANICAL PARTS</b>				
Please refer to a Parts list.				
<b>PACKING PARTS AND ACCESSORIES</b>				
Please refer to a Parts list.				

## IMPORTANT SERVICE SAFETY PRECAUTION

- Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

### WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.



**CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSE.**

F7003 (2A, 250V), F7004 (1A, DC 450V)  
F7301, F7302, F7401, F7402, F7501,  
F7502, F7601, F7602 (4A, 250V)  
F7801 (8A, 250V)

### BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

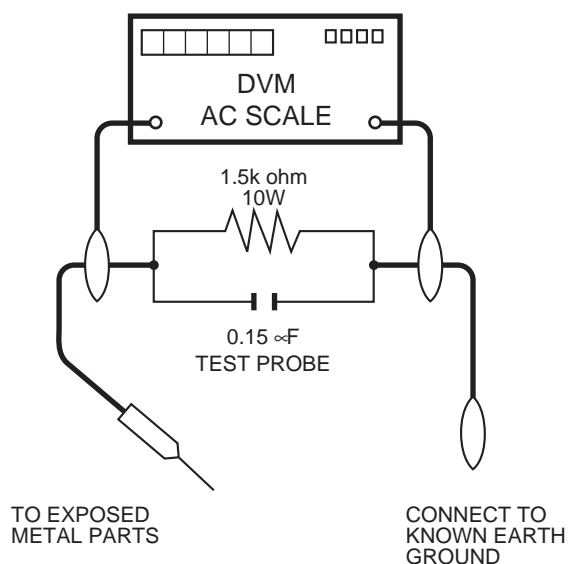
Before returning the receiver to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
  - Plug the AC cord directly into a 120 volt AC outlet.
  - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 $\mu$ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.

- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 0.75 Vrms (this corresponds to 0.5 mA rms AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



### SAFETY NOTICE

Many electrical and mechanical parts in LCD color television have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠"

and shaded areas in the **Replacement Parts List** and **Schematic Diagrams**.

For continued protection, replacement parts must be identical to those used in the original circuit.

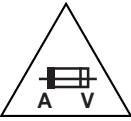
The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

# PRECAUTIONS A PRENDRE LORS DE LA REPARATION

■ Ne peut effectuer la réparation qu' un technicien spécialisé qui s'est parfaitement accoutumé à toute vérification de sécurité et aux conseils suivants.

## AVERTISSEMENT

1. N'entreprendre aucune modification de tout circuit.  
C'est dangereux.
2. Débrancher le récepteur avant toute réparation.



**PRECAUTION: POUR LA PROTECTION CONTINUE CONTRE LES RISQUES D'INCENDIE, REMPLACER LE FUSIBLE**

F7003 (2A, 250V), F7004 (1A, DC 450V)  
F7301, F7302, F7401, F7402, F7501,  
F7502, F7601, F7602 (4A, 250V)  
F7801 (8A, 250V)

## VERIFICATIONS CONTRE L'INCEN-DIE ET LE CHOC ELECTRIQUE

Avant de rendre le récepteur à l'utilisateur, effectuer les vérifications suivantes.

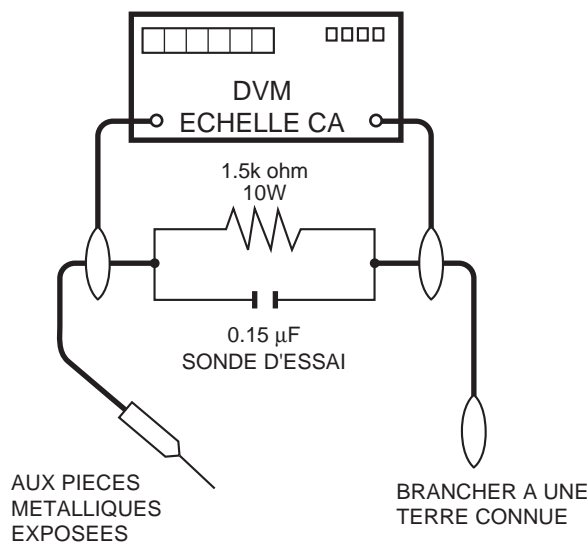
1. Inspecter tous les faisceaux de câbles pour s'assurer que les fils ne soient pas pincés ou qu'un outil ne soit pas placé entre le châssis et les autres pièces métalliques du récepteur.
2. Inspecter tous les dispositifs de protection comme les boutons de commande non-métalliques, les isolants, le dos du coffret, les couvercles ou blindages de réglage et de compartiment, les réseaux de résistance-capacité, les isolateurs mécaniques, etc.
3. S'assurer qu'il n'y ait pas de danger d'électrocution en vérifiant la fuite de courant, de la façon suivante:
  - Brancher le cordon d'alimentation directement à une prise de courant de 120V. (Ne pas utiliser de transformateur d'isolation pour cet essai).
  - A l'aide de deux fils à pinces, brancher une résistance de 1.5 k $\Omega$  10 watts en parallèle avec un condensateur

de 0.15 $\mu$ F en série avec toutes les pièces métalliques exposées du coffret et une terre connue comme une conduite électrique ou une prise de terre branchée à la terre.

- Utiliser un voltmètre CA d'une sensibilité d'au moins 5000 $\Omega$ /V pour mesurer la chute de tension en travers de la résistance.
- Toucher avec la sonde d'essai les pièces métalliques exposées qui présentent une voie de retour au châssis (antenne, coffret métallique, tête des vis, arbres de commande et des boutons, écusson, etc.) et mesurer la chute de tension CA en-travers de la résistance. Toutes les vérifications doivent être refaites après avoir inversé la fiche du cordon d'alimentation. (Si nécessaire, une prise d'adpatation non polarisée peut être utilisée dans le but de terminer ces vérifications.)

Tous les courants mesurés ne doivent pas dépasser 0.5 mA.

Dans le cas contraire, il y a une possibilité de choc électrique qui doit être supprimée avant de rendre le récepteur au client.



## AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les téléviseur ACL présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue. Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.

Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont

identifiées par la marque "  $\triangle$  " et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques.

Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies, radiations X ou autres accidents.

## Precautions for using lead-free solder

### 1 Employing lead-free solder

"PWBs" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

**LF**a

Sn-Ag-Cu

Indicates lead-free solder of tin, silver and copper.

### 2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

### 3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No,	★	Description	Code
ZHNDAi123250E	J	φ0.3mm 250g(1roll)	BL
ZHNDAi126500E	J	φ0.6mm 500g(1roll)	BK
ZHNDAi12801KE	J	φ1.0mm 1kg(1roll)	BM

# SPECIFICATIONS

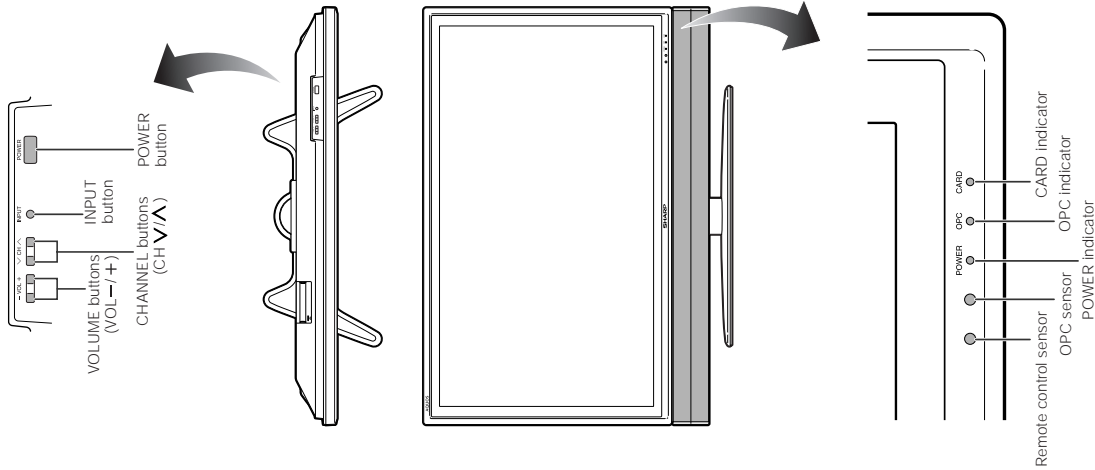
Item			45" LIQUID CRYSTAL TELEVISION, Model: LC-45GD6U
LCD panel			45" Advanced Super View & BLACK TFT LCD
Number of dots			6,220,800 dots (1920 × 1080 × 3 dots)
TV Function	TV-standard (CCIR)		American TV Standard ATSC/NTSC System
	Receiving Channel	VHF/UHF	VHF 2-13ch, UHF 14-69ch
		CATV	1-125ch
		Digital Terrestrial Broadcast (8VSB)	2-69ch
		Digital cable (64/256 QAM)	1-135ch
	Audio multiplex		BTSC System
Brightness			450 cd/m <sup>2</sup>
Viewing angles			H : 170° V : 170°
Audio amplifier			10W × 2
Speakers			Ø 8cm 2pcs, Ø 2.5cm 2pcs
Terminals	Rear	INPUT 1	AV in, COMPONENT in
		INPUT 2	AV in, COMPONENT in
		INPUT 3	S-VIDEO in, AV in
		INPUT 4	HDMI in (Type-A) with HDCP
		INPUT 5	Audio in, DVI-I in with HDCP
		ANALOG ANTENNA	75 Ω Unbalance, F Type for VHF/UHF/CATV in × 2, out × 1
		DIGITAL ANTENNA	75 Ω Unbalance, F Type for Digital Air/Cable in × 1
		MONITOR OUTPUT	S-VIDEO out, AV out
		EXTERNAL SPEAKER	4 Ω 10W (L/R)
		CENTER CHANNEL INPUT	RCA pin
		DIGITAL AUDIO OUTPUT	Optical Digital audio output × 1 (PCM/Dolby Digital)
		i.LINK	IEEE1394 × 2 with DTCP
		PC CARD slot	68 pin PCMCIA × 1
		CableCARD slot	68 pin PCMCIA × 1
		DC OUTPUT	DC 9 V 7 W MAX
OSD language			English/French/Spanish
Power Requirement			AC 120 V, 60 Hz
Power Consumption			330 W (13.4 W Standby with AC 120 V)
Weight	Display only		60.6 lbs./27.5 kg
	with Display and speaker		71.7 lbs./32.5 kg
	with Display, speaker and stand		80.5 lbs./36.5 kg

- As part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

# OPERATION MANUAL

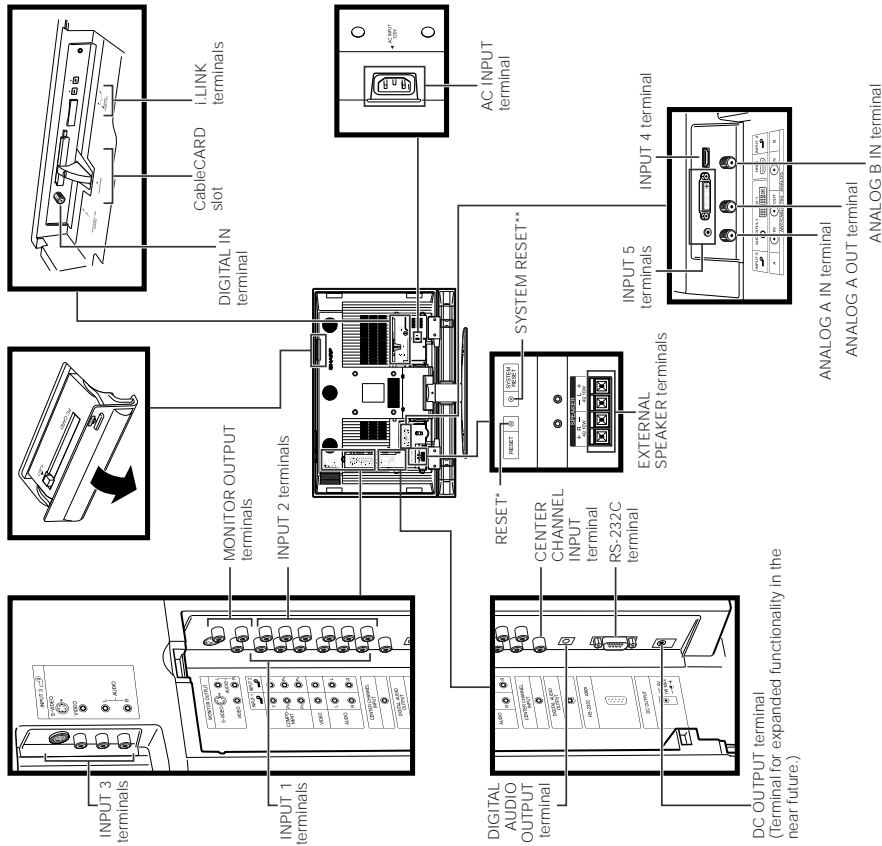
## Part names

### Display



## Part names

### Display



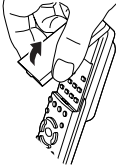
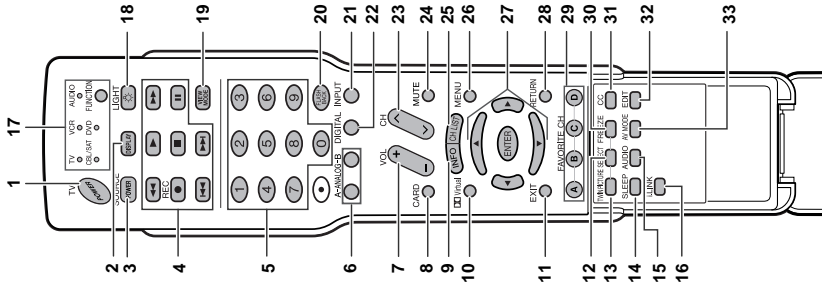
- \* Press **RESET** if the TV cannot return to its original state after performing various operations.
- \* AV MODE resets to DYNAMIC (Fixed)
- \* TV channel returns to initial channel (Air:2ch, Cable:1 or 2ch)
- \* Twin picture resets to normal
- \* Audio setting initializes
- \* Dolby virtual resets to off
- \*\* Press **SYSTEM RESET** if the TV does not operate after starting up.

### NOTE

- \* Pressing **RESET** will not work if the TV is in standby mode.
- \* Pressing **RESET** will not delete channel preset or secret number.

Part names

Remote control unit



• When using the remote control unit, point it at the Liquid Crystal Television.

- 1 **TV POWER:** Switches the Liquid Crystal Television power on or Standby.
- 2 **DISPLAY:** Displays the channel information.
- 3 **SOURCE POWER:** Turns the power of the external equipment on and off.
- 4 **External equipment operational buttons:** Operates the external equipment.
- 5 **0 - 9:** Sets the channel.
- 6 **A-ANALOG-B:** Each button selects the corresponding antenna.
- 7 **VOL +/-:** Sets the volume.
- 8 **CARD:** Switches to card mode.
- 9 **INFO:** Displays the program information screen.
- 10 **Virtual:** Selects Virtual Dolby Surround settings.
- 11 **EXIT:** Turns off the menu screen.
- 12 **SELECT:** Selects the active screen.
- 13 **TWIN PICTURE:** Sets the twin picture mode. Press again to return to normal screen.
- 14 **SLEEP:** Sets the sleep timer.
- 15 **AUDIO:** Selects the MTS/SAP or the audio mode during multi-channel audio broadcasts.
- 16 **i.LINK:** Displays the i.LINK panel.
- 17 **FUNCTION:** Switches the remote control for TV, CBL, SAT, VCR, DVD and AUDIO operation. Indicator lights up for the current mode.
- 18 **⏏:** When pressed all buttons on the remote control unit will light. The lighting will turn off if no operations are performed within about 5 seconds. This button is used for performing operations in low-light situations.
- 19 **VIEW MODE:** Selects the screen size.
- 20 **FLASHBACK:** Returns to the previous channel or input external mode.
- 21 **INPUT:** Selects a Liquid Crystal Television input source. (TV, INPUT 1, INPUT 2, INPUT 3, INPUT 4, INPUT 5, i.LINK, Card)
- 22 **DIGITAL:** Receives digital broadcasts.
- 23 **CH  $\Delta$   $\nabla$ :** Selects the channel.
- 24 **MUTE:** Mutes the sound.
- 25 **CH LIST:** Displays the channel list screen.
- 26 **MENU:** Displays the menu screen.
- 27  **$\blacktriangle$   $\blacktriangledown$   $\blackleftarrow$   $\blackrightarrow$  ENTER:** Selects a desired item on the Screen.
- 28 **RETURN:** Returns to the previous menu screen.
- 29 **FAVORITE CH A, B, C, D:** Selects four preset favorite channels in four different categories.

While watching, you can toggle the selected channels by pressing A, B, C and D.

30 **FREEZE:** Sets the still image. Press again to return to normal screen.

31 **CC:** Displays captions during closed-caption source.

32 **EDIT:** Registers favorite channel.

33 **AV MODE:** Selects an audio or video setting. (AV mode: STANDARD, MOVIE, GAME, USER, DYNAMIC (Fixed), DYNAMIC, PC mode: STANDARD, USER.)

Preparation

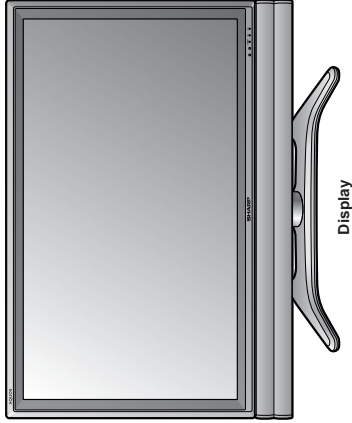
Where to place the TV

First select the location where to place the TV.

1

Selecting the location of the TV

- Select a place with good ventilation.

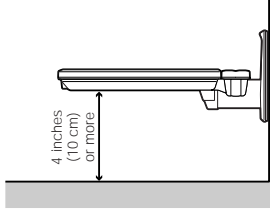


2

Setting the TV in place Handling the Display



- Do not remove the stand and speaker from the Display unless using an optional bracket to mount it.
- Keep enough space above and behind the Display.
- When you move the TV, carry it by two or more people.
- When you move the Display, hold the side portion of the Display, not the speaker.



Adjust the screen with both hands. Put one hand on the Display and rotate the screen while steadying the stand with your other hand. Please note that you cannot adjust the screen vertically with this model.



# Preparation

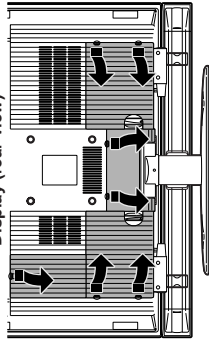
## Setting the TV

After putting the Display in place, connect the AC cord. Use the cable clamp for bundling the cables.

1

### Removing the terminal cover

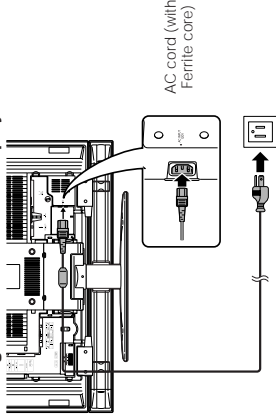
Display (rear view)



Press down the hooks to remove the cover toward you.

2

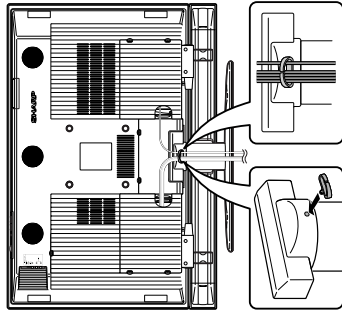
### Connecting the AC cord to the Display



AC cord (with Ferrite core)

3

### Bundling the cables with the clamp



Cable clamp

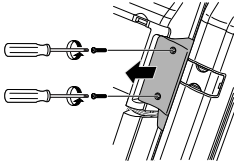
Insert the cable clamp in the hole on the Display as shown.

## CAUTION

- TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH UN-INSULATED PARTS OF ANY CABLES WITH THE AC CORD CONNECTED.

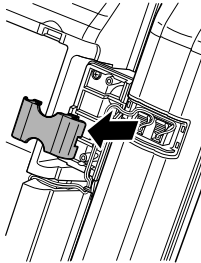
## Removing speakers

1



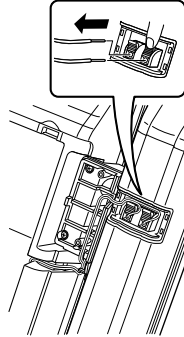
Unfasten the screw used to secure the speaker bracket.

2



Take off the speaker terminal cover.

3



Disconnect the cable from the speaker.

## CAUTION

- Do not remove the stand and speaker from the Display unless using an optional bracket to mount it.
- Before performing work spread cushioning over the base area to lay the Display on. This will prevent it from being damaged.

## NOTE

- To attach the speakers, perform the steps in reverse order.

## Preparation

### Removing the stand

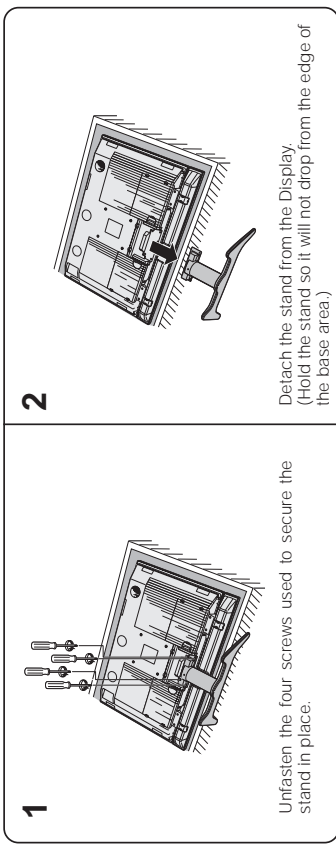
Before detaching (or attaching) stand, unplug the AC cord from the AC input terminal.

#### CAUTION

- Do not remove the stand from the Display unless using an optional wall mount bracket to mount it.

### Before attaching/detaching stand

- Before performing work make sure to turn off the TV.
- Before performing work spread cushioning over the base area to lay the Display on. This will prevent it from being damaged.



#### CAUTION

- Do not remove the stand and speaker from the Display unless using an optional bracket to mount it.

#### NOTE

- To attach the stand, perform the above steps in reverse order.

### Setting the Display on the wall

#### CAUTION

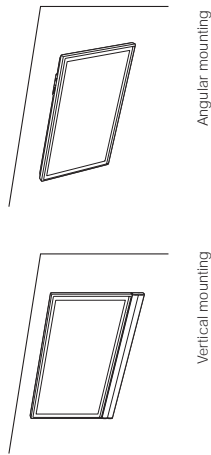
- Installing the Liquid Crystal Television requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.

### Using an optional bracket to mount the Display

- You can ask a qualified service personnel about using the optional AN-37AG2 bracket to mount the Display to the wall.
- Carefully read the instructions that come with the bracket before beginning work.

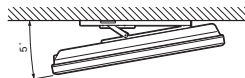
#### Hang on the wall

AN-37AG2 wall mount bracket. (See the bracket instructions for details.)



#### About setting the Display angle

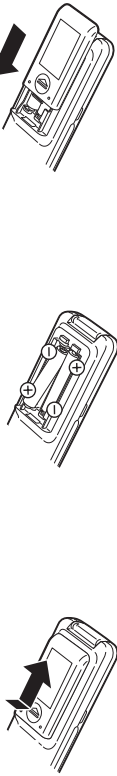
Angle of Display	
With Speakers Removed	5°
With Speakers Attached	5°



### Inserting the batteries

If the remote control fails to operate Liquid Crystal Television functions, replace the batteries in the remote control unit.

- Open the battery cover.
- Insert two "AAA" size batteries (supplied with the product).
- Close the battery cover.



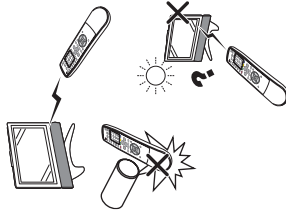
- Place the batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment.

#### CAUTION

- Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.
- Place the batteries with their terminals corresponding to the (+) and (-) indications.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they are worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove batteries from it.

### Using the remote control unit

Use the remote control unit by pointing it towards the remote control sensor on the Display. Objects between the remote control unit and the remote control sensor may prevent proper operation.



### Cautions regarding remote control unit

- Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the remote control unit.
- The remote control unit may not work properly if the remote control sensor on the Display is under direct sunlight or strong lighting. In such cases, change the angle of the lighting or the Display, or operate the remote control unit closer to the remote control sensor.

# Appendix

## RS-232C port specifications

## PC Control of the TV

- When a program is set, the Display can be controlled from the PC using the RS-232C terminal. The input signal (PC/AV) can be selected, the volume can be adjusted and various other adjustments and settings can be made, enabling automatic programmed playing.
- Attach an RS-232C cable cross-type (commercially available) to the supplied Din/D-Sub RS-232C for the connections.



- This operation system should be used by a person who is accustomed to using computers.

### Communication conditions

Set the RS-232C communications settings on the PC to match the display's communications conditions. The Display's communications settings are as follows:

<b>Baud rate:</b>	9,600 bps
<b>Data length:</b>	8 bits
<b>Parity bit:</b>	None
<b>Stop bit:</b>	1 bit
<b>Flow control:</b>	None

### Communication procedure

Send the control commands from the PC via the RS-232C connector.

The display operates according to the received command and sends a response message to the PC. Do not send multiple commands at the same time. Wait until the PC receives the OK response before sending the next command.

### Command format

Eight ASCII codes + CR

C1	C2	C3	C4	P1	P2	P3	P4	Return code
Command 4-digits				Parameter 4-digits				
								Command Parameter

## Parameter

input the parameter values, aligning left, and fill with blank(s) for the remainder. (Be sure that 4 values are input for the parameter.)

When the input parameter is not within an adjustable range, "ERR" returns. (Refer to "Response code format".)

Any numerical value can replace the "x" on the table.

0			
0	0	0	9
-	3	0	
1	0	0	
0	0	5	5
input for some comm			
?			
?	?	?	?

When "?" is input for some commands, the present setting value responds.


## Response code format

Normal response

7	↓
Y	
O	

Return code (ODH)

Problem response (communication error or incorrect command)

E	R	R	↘
---	---	---	---

Return code (ODH)

## Command table

- Commands not indicated here are not guaranteed to operate.

CONTROL ITEM		COMMAND / PARAMETER		CONTROL CONTENTS	
POWER SETTING	TOGGLE	P / O W E R	0	It shifts to standby.	
	INPUT SELECTION A	I N P U T	1	It input switches by the toggle. (It is the same as an input change key)	
	TV	I N P U T	0	It input switches to TV. (A channel remains as it is. (Last memory))	
INPUT SELECTION B	LINK	L I N K	0	It input switches to LINK.	
	CARD	C A R D	0	It shifts to CARD mode.	
	INPUT 1	I N P U T	0	An input change is also included.	
AV MODE SELECTION	INPUT 2	I N P U T	2	AUTO	
	VIDEO	V I D E O	0	VIDEO	
	INPUT 3	I N P U T	3	VIDEO	
	INPUT 4	I N P U T	4	VIDEO	
	INPUT 5	I N P U T	5	DIGITAL PC	
	INPUT 6	I N P U T	6	ANALOG PC	
	INPUT 7	I N P U T	7	DIGITAL AV	
	INPUT 8	I N P U T	8	DIGITAL AV	
	INPUT 9	I N P U T	9	STANDARD	
	INPUT 10	I N P U T	10	MOVIE	
VOLUME POSITION	INPUT 11	I N P U T	11	MOVIE	
	INPUT 12	I N P U T	12	USER	
	INPUT 13	I N P U T	13	DYNAMIC (fixed)	
	INPUT 14	I N P U T	14	DYNAMIC (fixed)	
	INPUT 15	I N P U T	15	DYNAMIC (fixed)	
	INPUT 16	I N P U T	16	DYNAMIC (fixed)	
	INPUT 17	I N P U T	17	DYNAMIC (fixed)	
	INPUT 18	I N P U T	18	DYNAMIC (fixed)	
	INPUT 19	I N P U T	19	DYNAMIC (fixed)	
	INPUT 20	I N P U T	20	DYNAMIC (fixed)	
VIEWMODE	INPUT 21	I N P U T	21	DYNAMIC (fixed)	
	INPUT 22	I N P U T	22	DYNAMIC (fixed)	
	INPUT 23	I N P U T	23	DYNAMIC (fixed)	
	INPUT 24	I N P U T	24	DYNAMIC (fixed)	
	INPUT 25	I N P U T	25	DYNAMIC (fixed)	
	INPUT 26	I N P U T	26	DYNAMIC (fixed)	
	INPUT 27	I N P U T	27	DYNAMIC (fixed)	
	INPUT 28	I N P U T	28	DYNAMIC (fixed)	
	INPUT 29	I N P U T	29	DYNAMIC (fixed)	
	INPUT 30	I N P U T	30	DYNAMIC (fixed)	
MUTE	INPUT 31	I N P U T	31	DYNAMIC (fixed)	
	INPUT 32	I N P U T	32	DYNAMIC (fixed)	
	INPUT 33	I N P U T	33	DYNAMIC (fixed)	
	INPUT 34	I N P U T	34	DYNAMIC (fixed)	
	INPUT 35	I N P U T	35	DYNAMIC (fixed)	
	INPUT 36	I N P U T	36	DYNAMIC (fixed)	
	INPUT 37	I N P U T	37	DYNAMIC (fixed)	
	INPUT 38	I N P U T	38	DYNAMIC (fixed)	
	INPUT 39	I N P U T	39	DYNAMIC (fixed)	
	INPUT 40	I N P U T	40	DYNAMIC (fixed)	
AUDIO SELECTION	INPUT 41	I N P U T	41	DYNAMIC (fixed)	
	INPUT 42	I N P U T	42	DYNAMIC (fixed)	
	INPUT 43	I N P U T	43	DYNAMIC (fixed)	
	INPUT 44	I N P U T	44	DYNAMIC (fixed)	
	INPUT 45	I N P U T	45	DYNAMIC (fixed)	
	INPUT 46	I N P U T	46	DYNAMIC (fixed)	
	INPUT 47	I N P U T	47	DYNAMIC (fixed)	
	INPUT 48	I N P U T	48	DYNAMIC (fixed)	
	INPUT 49	I N P U T	49	DYNAMIC (fixed)	
	INPUT 50	I N P U T	50	DYNAMIC (fixed)	
SLEEP TIMER	INPUT 51	I N P U T	51	DYNAMIC (fixed)	
	INPUT 52	I N P U T	52	DYNAMIC (fixed)	
	INPUT 53	I N P U T	53	DYNAMIC (fixed)	
	INPUT 54	I N P U T	54	DYNAMIC (fixed)	
	INPUT 55	I N P U T	55	DYNAMIC (fixed)	
	INPUT 56	I N P U T	56	DYNAMIC (fixed)	
	INPUT 57	I N P U T	57	DYNAMIC (fixed)	
	INPUT 58	I N P U T	58	DYNAMIC (fixed)	
	INPUT 59	I N P U T	59	DYNAMIC (fixed)	
	INPUT 60	I N P U T	60	DYNAMIC (fixed)	
CHANNEL	INPUT 61	I N P U T	61	DYNAMIC (fixed)	
	INPUT 62	I N P U T	62	DYNAMIC (fixed)	
	INPUT 63	I N P U T	63	DYNAMIC (fixed)	
	INPUT 64	I N P U T	64	DYNAMIC (fixed)	
	INPUT 65	I N P U T	65	DYNAMIC (fixed)	
	INPUT 66	I N P U T	66	DYNAMIC (fixed)	
	INPUT 67	I N P U T	67	DYNAMIC (fixed)	
	INPUT 68	I N P U T	68	DYNAMIC (fixed)	
	INPUT 69	I N P U T	69	DYNAMIC (fixed)	
	INPUT 70	I N P U T	70	DYNAMIC (fixed)	
ANTENNA SELECT	INPUT 71	I N P U T	71	DYNAMIC (fixed)	
	INPUT 72	I N P U T	72	DYNAMIC (fixed)	
	INPUT 73	I N P U T	73	DYNAMIC (fixed)	
	INPUT 74	I N P U T	74	DYNAMIC (fixed)	
	INPUT 75	I N P U T	75	DYNAMIC (fixed)	
	INPUT 76	I N P U T	76	DYNAMIC (fixed)	
	INPUT 77	I N P U T	77	DYNAMIC (fixed)	
	INPUT 78	I N P U T	78	DYNAMIC (fixed)	
	INPUT 79	I N P U T	79	DYNAMIC (fixed)	
	INPUT 80	I N P U T	80	DYNAMIC (fixed)	



- If an underbar (  ) appears in the parameter column, enter a space.
- If an asterisk (\*) appears, enter a value in the range indicated in brackets under CONTROL CONTENTS.
- As long as that from which the parameter (X) in the table is a numerical value, it may write anything.

Basic adjustment settings

AV input mode menu items

List of AV menu items to help you with operations



OPC  
Backlight  
Contrast  
Brightness  
Color  
Tint  
Sharpness  
Advanced  
C.M.S.  
Color Temp.  
Sharpness Enhancement  
Automatic Contrast  
I/P Setting  
Film Mode  
3D-Y/C  
Monochrome



Treble  
Bass  
Balance  
Dolby Virtual



No Signal Off  
No Operation Off



EZ Setup  
CH Setup  
Antenna Setup-DIGITAL  
Speaker Setup  
Input Label  
Parental CTRL  
Position  
Picture Flip  
Language



Audio Only  
3D Noise Reduction  
Mosquito Noise Reduction  
HDMI Setup  
Input Select  
Output Select  
Quick Shoot  
Center Channel Input  
Caption Setup  
Title Display Type



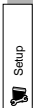
CableCARD MENU  
Video Setup  
Audio Setup  
i.LINK Setup



OPC  
Backlight  
Contrast  
Brightness  
Red  
Green  
Blue  
Advanced  
C.M.S.  
Sharpness Enhancement



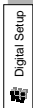
Treble  
Bass  
Balance  
Dolby Virtual



Speaker Setup  
Input Signal  
Auto Sync.  
Input Label  
Fine Sync.  
Picture Flip  
Language



Audio Only  
Input Select  
Output Select  
Quick Shoot  
Center Channel Input



i.LINK Setup

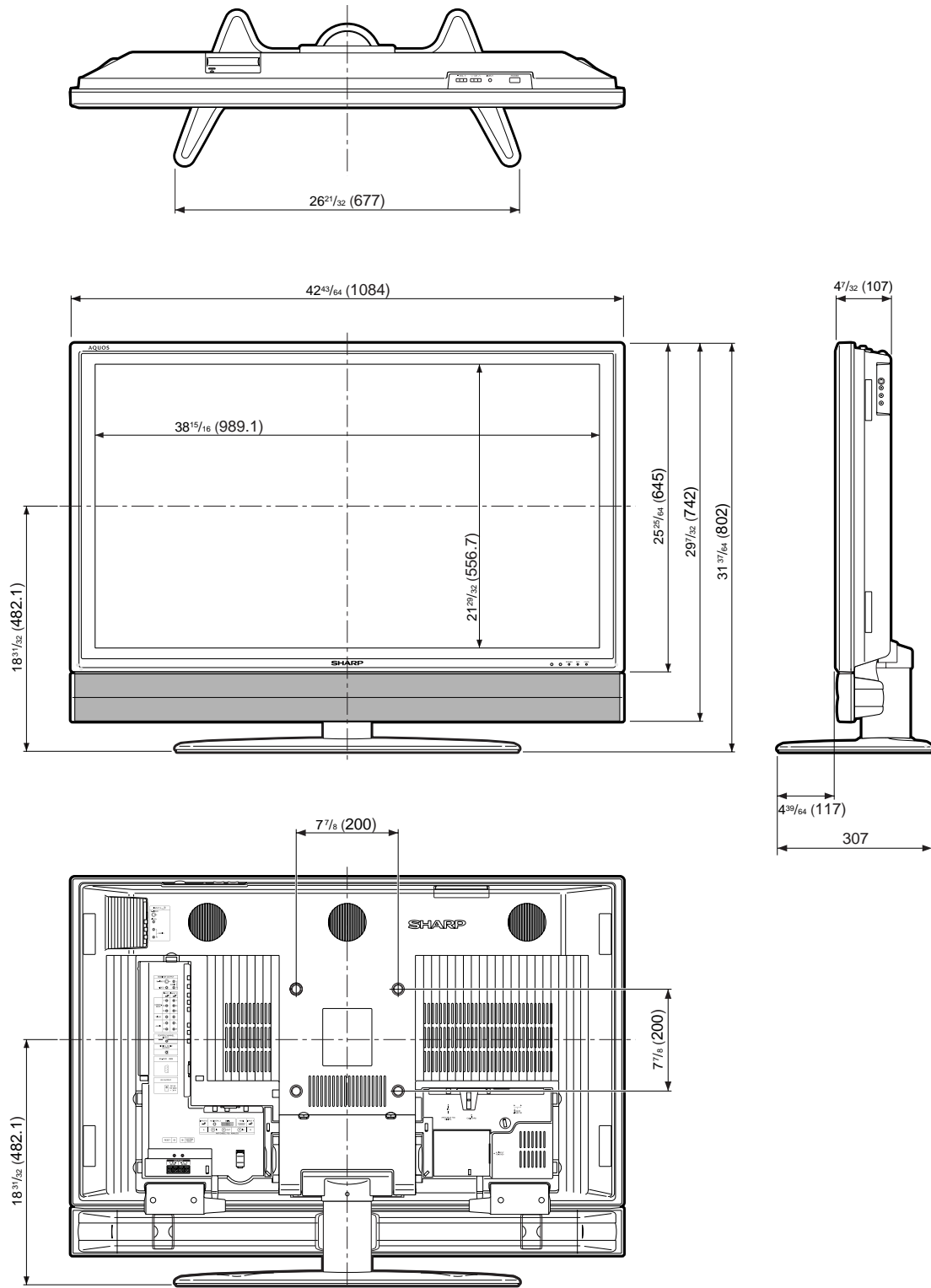
\*PC input mode menu items

List of PC menu items to help you with operations

\*When INPUT5 is set to PC.

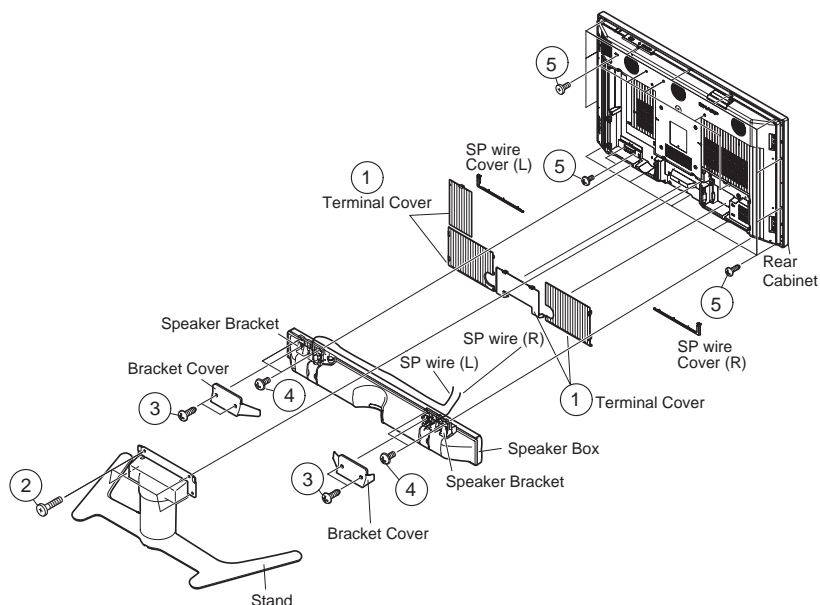
# DIMENSIONS

Unit: inch/(mm)

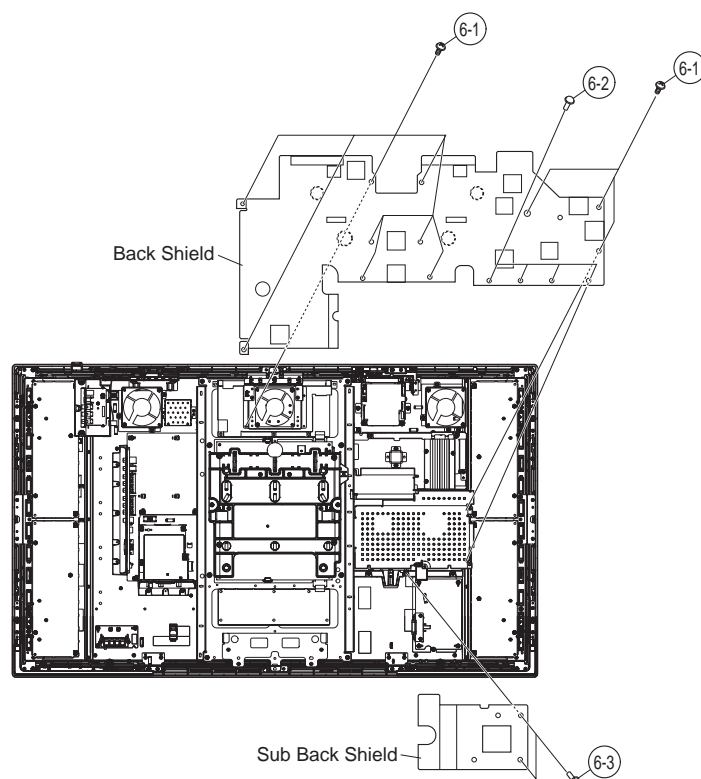


## REMOVING OF MAJOR PARTS

1. Remove the Terminal Covers ① .
2. Remove 4 lock screws ② and detach the Stand.
3. Remove 4 lock screws ③ and detach the Bracket Covers.
4. Remove 4 lock screws ④ and separate the Speaker Box from the set.  
Disconnect SP wire (R) and SP wire (L).
5. Remove 26 lock screws ⑤ from Rear Cabinet, and detach the Rear Cabinet.



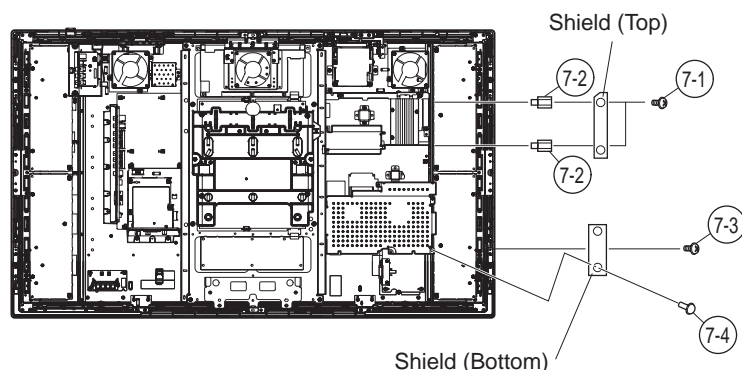
6. Remove the Back Shield and Sub Back Shield.
  - 6-1. Remove the 11 lock screws ⑥-1 and 4 rivets ⑥-2. Detach the Back Shield.
  - 6-2. Remove the 2 rivets ⑥-3 and detach the Sub Back Shield.



7. Remove the Top and Bottom Shields.

7-1. Remove the 2 lock screws (7-1), Shield (Top) and 2 nuts (7-2).

7-2. Remove the 1 lock screw (7-3) 1 rivet (7-4). Detach the Shield (Bottom).



8. Remove the 2 lock screws (8) and detach the Main/Digital PWB Shield.

9. Remove the 4 lock screws (9) and detach the Wire Holder Cover Ass'y.

10. Remove the Fan Angle.

10-1. Remove the 2 lock screws (10-1) and detach the Upper Wire Angle Ass'y.

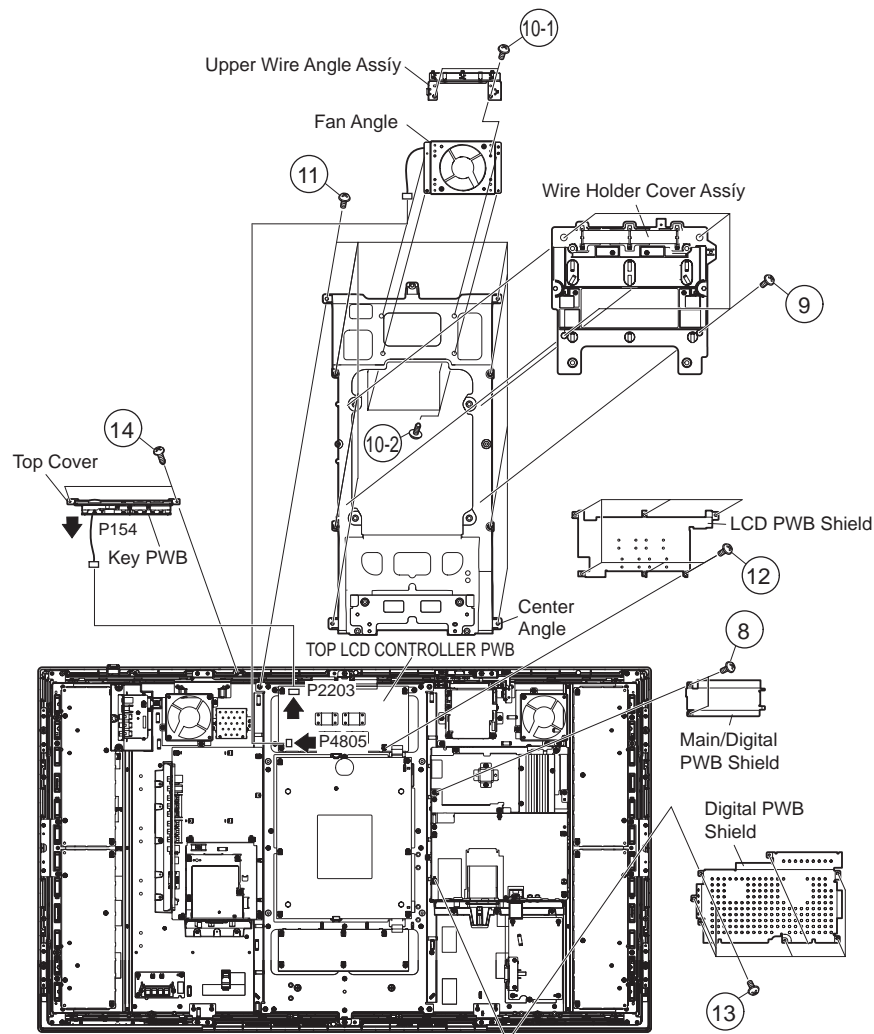
10-2. Remove the Connector (P4805) from the TOP LCD CONTROLLER PWB. Remove the 4 lock screws (10-2) and detach the Fan Angle.

11. Remove the 8 lock screws (11) and detach the Center Angle.

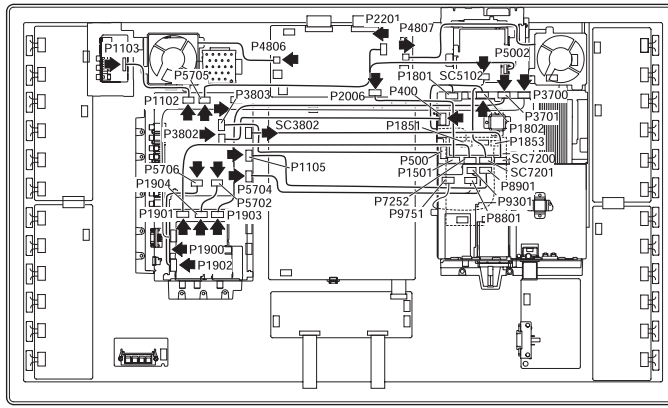
12. Remove the 6 lock screws (12) and detach the LCD PWB Shield.

13. Remove the 7 lock screws (13) and detach the Digital PWB Shield.

14. Remove the 2 lock screws (14) from the Top Cover. Remove the Connector (P154) from the Key PWB.



15. Remove the connectors from PWBs.



16. Remove the 6 lock screws (15) and detach the Fan Angles.

17. Remove the PC Card PWB.

17-1. Remove the 5 lock screws (16-1) from the PC Card Unit Holder.

17-2. Remove the 4 lock screws (16-2) from the PC Card Shield Ass'y.

17-3. Detach the PC Card PWB.

18. Remove the Digital PWB and Main PWB.

18-1. Remove the 2 lock screws (17-1) and remove the Digital/Main PWB Angle. Remove the 2 lock screws (17-2) and Remove the Digital Cover.

18-2. Remove the 6 lock screws (17-3) and detach the Main PWB Shield. Remove the Main PWB.

18-3. Remove the Digital Shield.

19. Remove the AV SUB PWB Unit.

19-1. Remove the 3 lock screws (18-1) and detach the AV SUB PWB Unit.

19-2. Remove the 1 lock screw (18-2) and detach the AV SUB PWB.

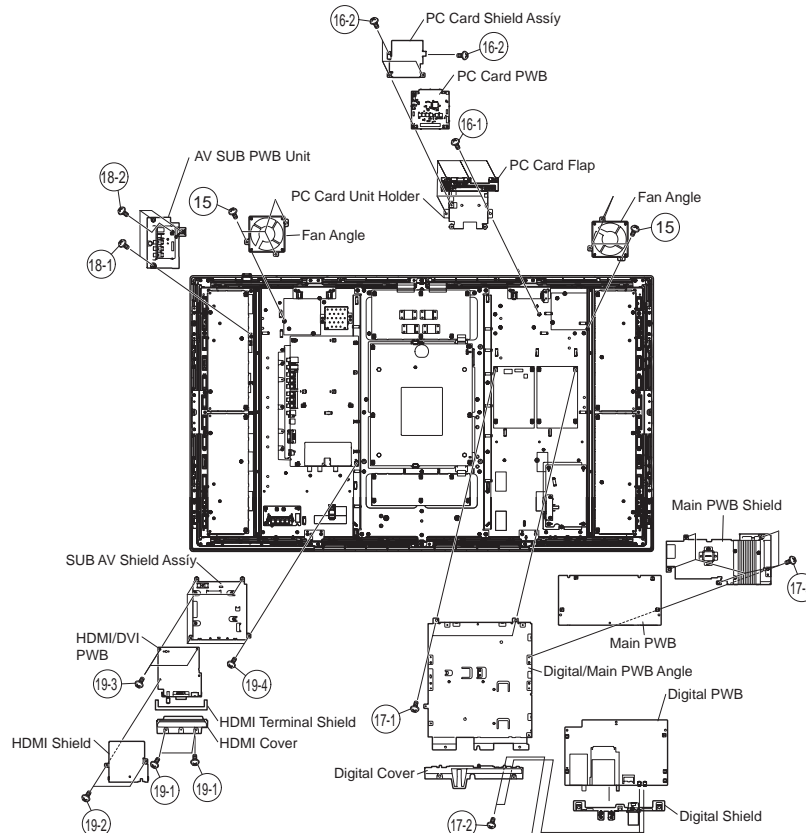
20. Remove the HDMI/DVI PWB.

20-1. Remove the 3 lock screws (19-1) and detach the HDMI Cover.

20-2. Remove the 2 lock screws (19-2) and detach the HDMI Shield.

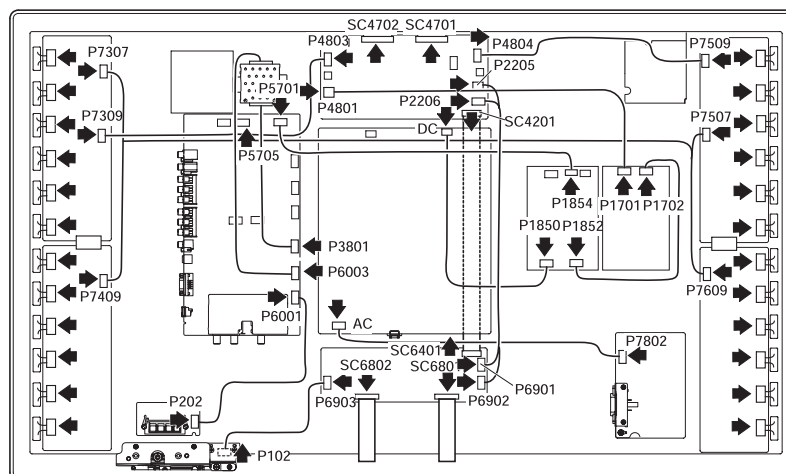
20-3. Remove the 2 lock screws (19-3) and detach the HDMI/DVI PWB. Remove the HDMI Terminal Shield.

20-4. Remove the 4 lock screws (19-4) and detach the SUB AV Shield Ass'y.





21.Remove the connectors from PWBs.



22.Remove the AV PWB.

22-1. Remove the 6 lock screws (20-1) and detach the AV PWB Unit.

22-2. Remove the 5 lock screws (20-2) and detach the AV Cover R.

23.Remove the 4 lock screws (21) and detach the DC/DC2 PWB.

24.Remove the 2 lock screws (22) and detach the 1 Bit Amp.

25.Remove the 4 lock screws (23) and detach the DC/DC1 PWB.

26.Remove the 6 lock screws (24) and detach the AC-INLET PWB.

27.Remove the 2 lock screws (25) and detach the TOP LCD CONTROLLER PWB.

28.Remove the 6 lock screws (26) and detach the BOTTOM LCD CONTROLLER PWB.

29.Remove the 3 lock screws (27) and detach the SP-T PWB.

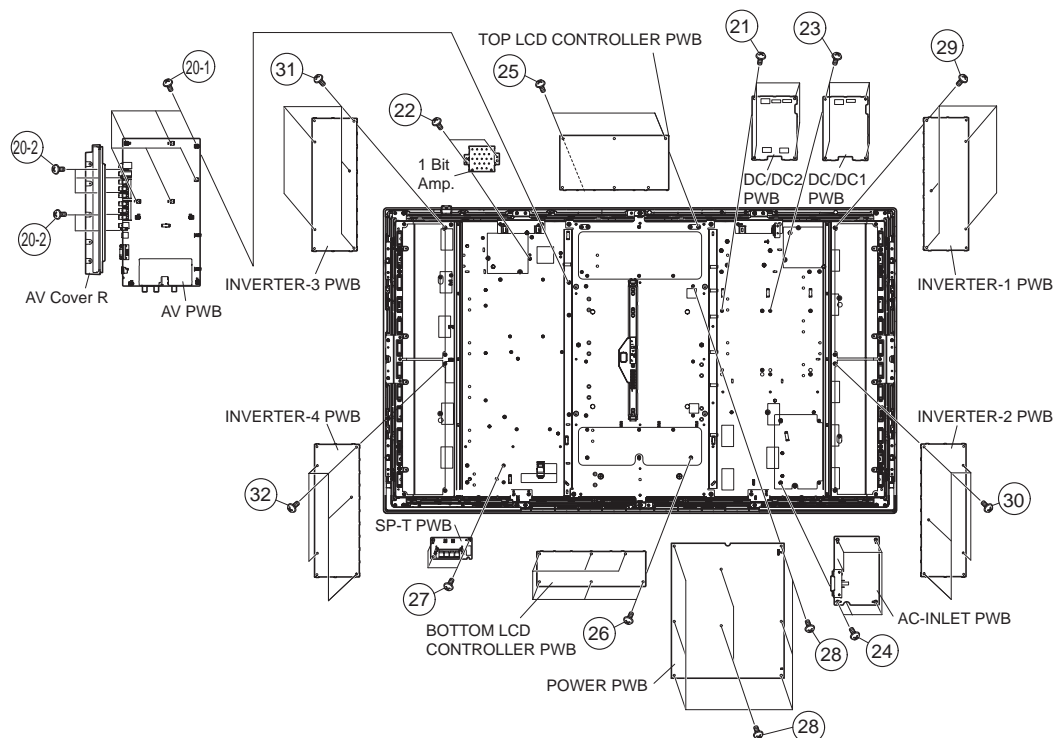
30.Remove the 8 lock screws (28) and detach the POWER PWB.

31.Remove the 5 lock screws (29) and detach the INVERTER-1 PWB.

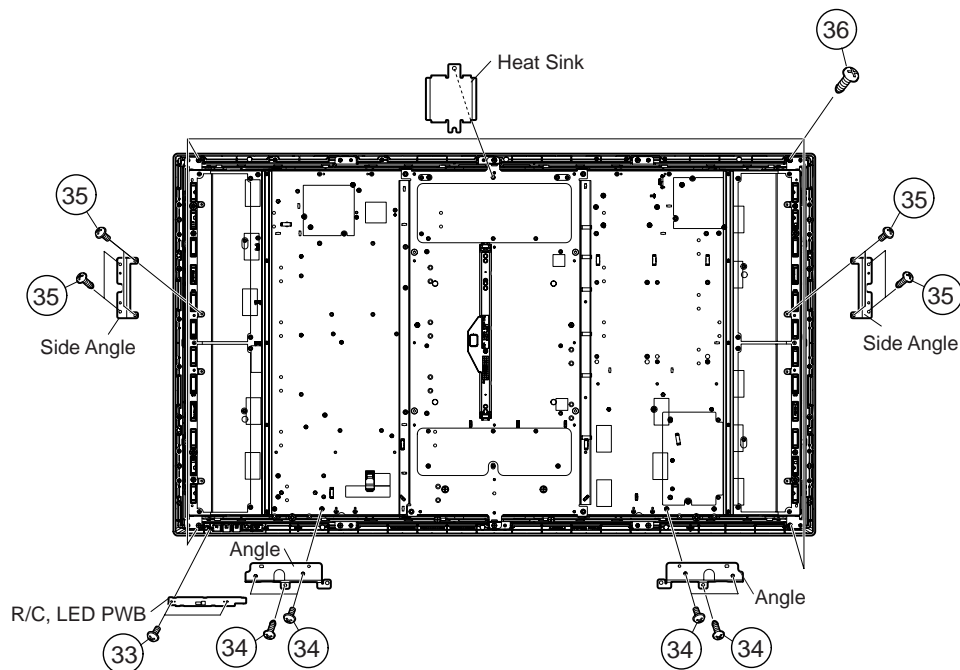
32.Remove the 5 lock screws (30) and detach the INVERTER-2 PWB.

33.Remove the 5 lock screws (31) and detach the INVERTER-3 PWB.

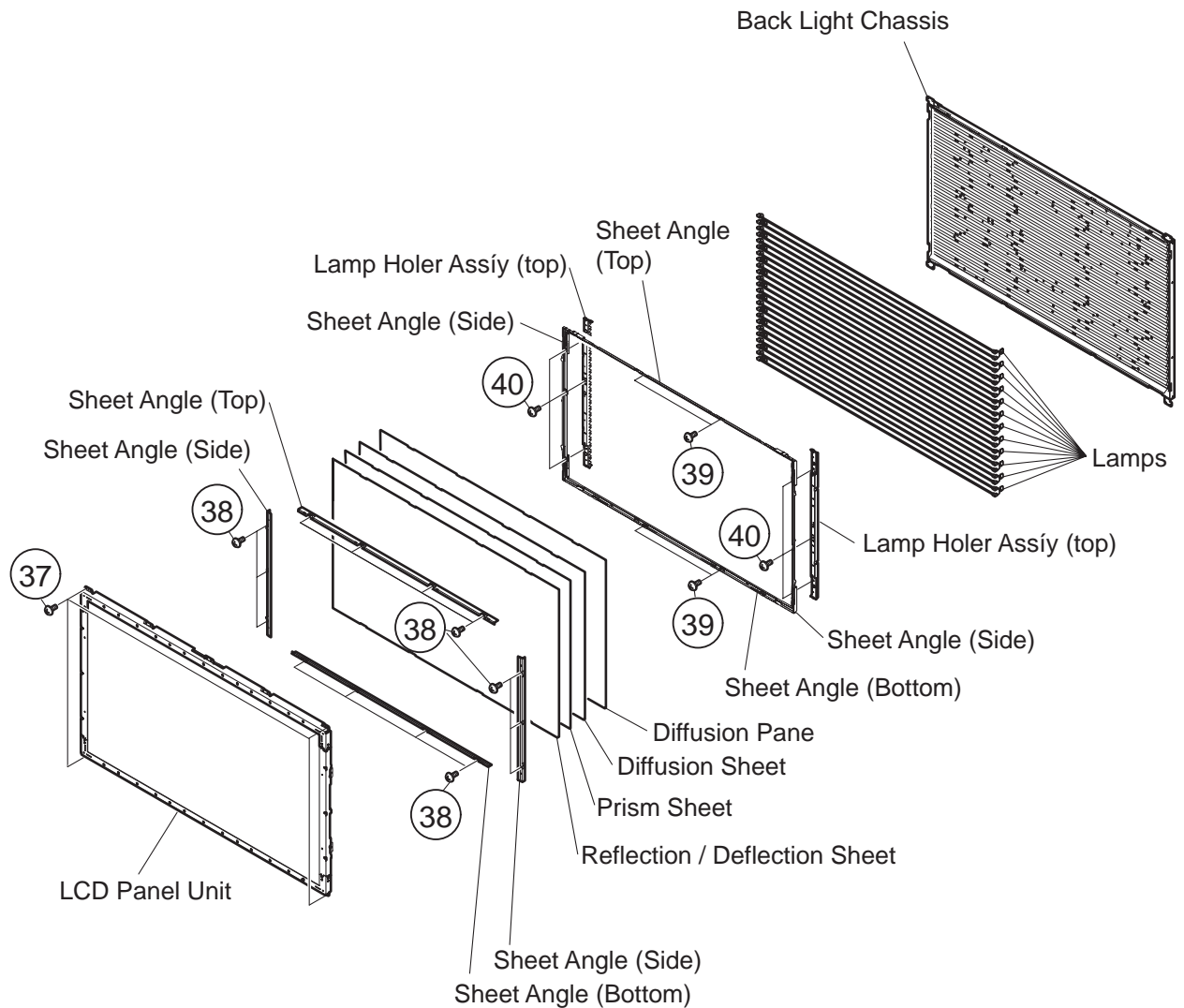
34.Remove the 5 lock screws (32) and detach the INVERTER-4 PWB.



- 35.Remove the 2 lock screws (33) and detach the R/C, LED PWB.
- 36.Detach the Heat Sink.
- 37.Remove the 8 lock screws (34) and detach the Angles.
- 38.Remove the 8 lock screws (35) and detach the Side Angles.
- 39.Remove the 4 lock screws (36) and detach the LCD Panel Unit Ass'y.




40. Remove the 4 lock screws (37) from the LCD Panel Unit, and detach the LCD Panel Unit.
41. Remove the 14 lock screws (38). Detach the Sheet Angle (Top), Sheet Angle (Bottom) and Sheet Angle (Side).
42. Detach the Prism, Diffusion and Reflection/Deflection Sheets and Diffusion Panel.
43. Remove the 4 lock screws (39). Detach the Sheet Angle (Top) and Sheet Angle (Bottom).
44. Remove the 6 lock screws (40). Detach the Sheet Angles (Side) and Lamp Holer Ass'y (top).
45. Remove the 12 Lamps from the Back Light Chassis.



# PARTS LIST

## PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by  and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

### "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

- |                 |                |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO.    |
| 3. PART NO.     | 4. DESCRIPTION |

in **USA**: Contact your nearest SHARP Parts Distributor to order.  
For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP


★ MARK: SPARE PARTS-DELIVERY SECTION

## PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

Ref. No.	Part No.	★	Description	Code
	DUNTKC267VJ60	—	HDMI/DVI Unit	—
	DKEYDC307VJ38	J	DIGITAL Unit	—
	DUNTKC471UJ06	—	INVERTER-1 Unit	—
	DUNTKC472UJ06	—	INVERTER-2 Unit	—
	DUNTKC473UJ06	—	INVERTER-3 Unit	—
	DUNTKC474UJ06	—	INVERTER-4 Unit	—
	DUNTKC544VJ06	J	PC CARD Unit	BX
	DUNTKD001UJ02	—	TOP LCD CONTROLLER Unit	—
	DUNTKD002UJ02	—	BOTTOM LCD CONTROLLER Unit	—
	DUNTKD003VJ02	J	MAIN Unit	CU
	DUNTKD004VJ02	—	DC/DC1 Unit	—
	DUNTKD005UJ02	—	DC/DC2 Unit	—
	DUNTKD006VJ02	—	AV Unit	—
	DUNTKD007UJ02	—	AV SUB Unit	—
	DUNTKD008UJ02	—	SP-T Unit	—
	DUNTKD009UJ02	—	AC-INLET Unit	—
	DUNTKD010UJ02	—	KEY_U Unit	—
	DUNTKD011UJ02	—	R/C, LED Unit	—
	RDENCA085WJZZ	—	POWER Unit	—
	B2SX4102BT	J	1BIT AMP Unit	BL

# LISTE DES PIECES

## CHANGE DES PIECES

Les pièces de rechange qui présentent ces caractéristiques spéciales de sécurité, sont identifiées dans ce manuel : les pièces électriques qui présentent ces particularités, sont repérées par la marque  et sont hachurées dans les listes de pièces et dans les diagrammes schématiques.

La substitution d'une pièce de rechange par une autre qui ne présente pas les mêmes caractéristiques de sécurité que la pièce recommandée par l'usine et dans ce manuel de service, peut provoquer une électrocution, un incendie ou tout autre sinistre.

### "COMMENT COMMANDER LES PIECES DE RECHANGE"

Pour que votre commande soit rapidement et correctement remplie, veuillez fournir les renseignements suivants.

- |                     |                |
|---------------------|----------------|
| 1. NUMERO DU MODELE | 2. NO. DE REF  |
| 3. NO. DE PIECE     | 4. DESCRIPTION |

in **CANADA**: Contact SHARP Electronics of Canada Limited  
Phone (416) 890-2100

## LCD PANEL

**NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.**

RLCDDTA030WJZZ	J	45" Wide LCD Panel Unit	HE
		(LK445D3FZA0)	

## DUNTKD001UJ02 TOP LCD CONTROLLER Unit

R2209	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2215	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA

## DUNTKD008UJ02 SP-T Unit

J203	QTANAA004WJZZ	J	Terminal, 4Pin	AG
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Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>CABINET AND MECHANICAL PARTS</b>					8	CHNG-A102WJ01	J	Stand Hinge Ass'y	BQ
1	CCABAA756WJ01	J	Front Cabinet Ass'y	BQ	8-1	Not Available	—	Stand Hinge	—
1-1	Not Available	—	Front Cabinet	—	8-2	GDAl-A117WJF8	J	Swivel Base	AP
1-2	GCOVAA917WJSA	J	LED Cover	AG	8-3	GDAl-A137WJSA	J	Stand Support	BB
1-3	HBDGBA039WJSA	J	Badge "SHARP"	AL	8-4	LX-NZA013WJFN	J	Nut	AE
1-4	PSPAGA237WJZZ	J	Spacer (LED), x2	—	8-5	PSPAZA580WJZZ	J	Spacer, x2	AC
1-5	PSPAHA376WJZZ	J	Mask Spacer, x6	AC	8-6	XCSS940P25000	J	Screw, x5	AB
1-6	PSPAKA083WJZZ	J	Spacer (LCD), x2	AB	9	CHLDZA500WJ01	J	Wire Holder Cover Ass'y	AZ
1-7	PSPAKA084WJZZ	J	Spacer (LCD)	AA	9-1	Not Available	—	Wire Holder Cover	—
1-8	TLABZA743WJZZ	J	Pop Label	AE	9-2	LHLDW1046CEZZ	J	Wire Holder	AA
2	CCABBA486WJ01	J	Rear Cabinet Ass'y	BY	9-3	LHLDWA043WJKZ	J	Wire Holder, x3	AB
2-1	Not Available	—	Rear Cabinet	—	9-4	LHLDWA059WJKZ	J	Wire Holder	AC
2-2	GCOVAA454WJKD	J	Hole Cover, x4	AC	9-5	LHLDWA073WJKZ	J	Wire Holder, x6	AC
2-3	GCOVAA755WJKA	J	Hole Cover, x6	AC	9-6	LHLDWA074WJKZ	J	Wire Holder, x3	AD
2-4	GCOVAB058WJKA	J	Side SP Cover, x4	AK	9-7	PSLDMA607WJFW	J	Wire Shield	AM
2-5	GDORTA007WJKA	J	PC Card Door	AN	9-8	PSPAHA484WJZZ	J	Spacer	AB
2-6	HiNDP5733CESB	J	AQUOS Label	AD	9-9	PSPAHA487WJZZ	J	Spacer	—
2-7	HiNDPB257WJSA	J	Terminal Indicator	—	9-10	QEARZA075WJZZ	J	Ground-Part, x2	AB
2-8	HiNDPB258WJSA	J	Terminal Indicator	—	9-11	XEBSN30P10000	J	Screw, x5	AA
2-9	HiNDPB259WJSA	J	Terminal Indicator	—	10	CHLDZA499WJ01	J	PC Card Unit Holder Ass'y	AV
2-10	LANGKA236WJFW	J	Damper Angle	AF	10-1	Not Available	—	PC Card Unit Holder	—
2-11	LHLDWA048WJKZ	J	SP Cable Wire Holder, x3	AB	10-2	GCOVAB060WJKA	J	PC Card Flap	AL
2-12	LHLDWA055WJKZ	J	Tuner Holder, x4	AC	10-3	LANGKA384WJFW	J	PC Card Unit Angle	AL
2-13	LHLDWA057WJKZ	J	Cable Holder	AE	10-4	LHLDZA498WJZZ	J	PC Card Flap Holder	AF
2-14	LHLDZ0132CEZZ	J	Holderr, x2	AD	10-5	MSPRDA021WJFW	J	PC Card Flap Spring	AB
2-15	MSPRDA020WJFW	J	Spring	AC	10-6	PSPAHA482WJZZ	J	Spacer, x2	AB
2-16	PDMPPA002WJZZ	J	Damper	AG	10-7	PZETKA120WJZZ	J	Insulator	AE
2-17	PSPAKA081WJZZ	J	Spacer (Stand)	AA	10-8	XEBSN30P10000	J	Screw, x4	AA
2-18	XBPSN20P05000	J	Screw, x2	AA	11	CANGKA387WJ01	J	SUB AV Shield Ass'y	AP
2-19	XEBSN30P10000	J	Screw, x9	AA	11-1	Not Available	—	SUB AV Shield	—
3	CCOVAA921WJ01	J	Control Cover Ass'y	AV	11-2	LHLDWA043WJKZ	J	Wire Holder, x2	AB
3-1	Not Available	—	Control Cover	—	11-3	LHLDWA073WJKZ	J	Wire Holder	AC
3-2	JBTN-A325WJKA	J	Power Button	AH	11-4	PSPAHA483WJZZ	J	Spacer	AB
3-3	JBTN-A326WJKA	J	Control Button	AL	12	CANGKA388WJ01	J	MAIN PWB Angle Ass'y	AY
3-4	MSPRCA049WJFW	J	Power Button Spring	AC	12-1	Not Available	—	MAIN PWB Angle	—
4	CCHSMA158WJ01	J	Center Frame Ass'y	BX	12-2	LHLDWA029WJKZ	J	Wire Holder	AC
4-1	Not Available	—	Center Frame	—	12-3	PSPAHA482WJZZ	J	Spacer	AB
4-2	LANGKA305WJFW	J	Stand Angle	AW	12-4	PSPAHA484WJZZ	J	Spacer, x2	AB
4-3	LANGKA390WJFW	J	Fan Angle	AP	12-5	PSPAHA488WJZZ	J	Spacer	AB
4-4	LHLDWA044WJKZ	J	Wire Holder	AB	12-6	PSPAHA491WJZZ	J	Spacer	AB
4-5	LHLDWA088WJZZ	J	Wire Holder, x2	AF	12-7	PSPANA010WJZZ	J	Spacer	AC
4-6	LX-BZA046WJFN	J	Screw, x4	AA	13	CANGKA389WJ01	J	Fan Angle Ass'y	AP
4-7	PSPAGA187WJ00	J	Spacer, x4	AB	13-1	Not Available	—	Fan Angle	—
4-8	PSPAHA432WJZZ	J	Spacer, x5	AC	13-2	PSPAGA187WJ00	J	Spacer, x4	AB
4-9	PSPAHA433WJZZ	J	Spacer, x2	AC	13-3	PSPAHA159WJZZ	J	Spacer, x2	AB
4-10	PSPAHA470WJZZ	J	Spacer, x3	AD	13-4	XBPSN30P08JS0	J	Screw, x2	AB
4-11	PSPAHA476WJZZ	J	Spacer, x4	AC	14	CANGKA428WJ01	J	Upper Wire Angle Ass'y	AQ
4-12	XBBS830P06000	J	Screw, x4	AA	14-1	Not Available	—	Upper Wire Angle	—
4-13	XBPSN30P08JS0	J	Screw, x2	AB	14-2	LHLDWA048WJKZ	J	Wire Holder B, x3	AB
5	CCOVAB048WJ01	J	AV Cover Ass'y	AR	14-3	LHLDWA058WJKZ	J	Wire Holder A, x2	AC
5-1	Not Available	—	AV Cover	—	14-4	PSPAHA481WJZZ	J	Spacer, x3	—
5-2	QEARPA133WJFW	J	Earth Angle	AF	15	Not Available	—	45" Wide LCD Panel Unit Ass'y	—
6	CCOVAB051WJ01	J	Digital Cover Ass'y	AW	15-1	RLCDDTA030WJZZ	J	45" Wide LCD Panel Unit (LK445D3FZA0)	HE
6-1	Not Available	—	Digital Cover	—	15-2	CANGKA306WJ01	J	Sheet Angle Ass'y (Upper)	BB
6-2	JKNBZA015WJSA	J	CATV Card Lock	AK	15-2-1	Not Available	—	Sheet Angle (Upper)	—
6-3	LANGKA382WJFW	J	Lock Angle	AK	15-2-2	PSPAKA071WJZZ	J	Spacer	AQ
6-4	LHLDZA496WJZZ	J	Lock Holder	AE	15-2-3	PSPAKA074WJZZ	J	Spacer	AQ
6-5	MSPRDA038WJFW	J	Lock Spring	AC	15-3	CANGKA306WJ02	J	Sheet Angle Ass'y (Upper)	BB
6-6	XBBS830P06000	J	Screw, x2	AA	15-3-1	Not Available	—	Sheet Angle (Upper)	—
6-7	XEBSN30P08000	J	Screw, x2	AA	15-3-2	PSPAKA086WJZZ	J	Spacer	AR
7	CDAI-A122WJ08	J	Stand Base Ass'y	BP	15-3-3	PSPAKA087WJZZ	J	Spacer	AR
7-1	GDAl-A122WJKA	J	Stand Base	BC	15-4	CANGKA308WJ01	J	Sheet Angle Ass'y (Side), x2	AU
7-2	LANGKA282WJSA	J	Base Angle	BF	15-4-1	Not Available	—	Sheet Angle (Side)	—
7-3	PSPAZA476WJZZ	J	Leg Cushion, x4	AC	15-4-2	PSPAKA072WJZZ	J	Spacer	AM
7-4	PSPAZA477WJZZ	J	Leg Cushion, x2	AD					
7-5	PSPAZA530WJZZ	J	Leg Cushion, x2	AD					
7-6	XEBS940P10000	J	Screw, x10	AB					

## CABINET AND MECHANICAL PARTS

### (Continued)

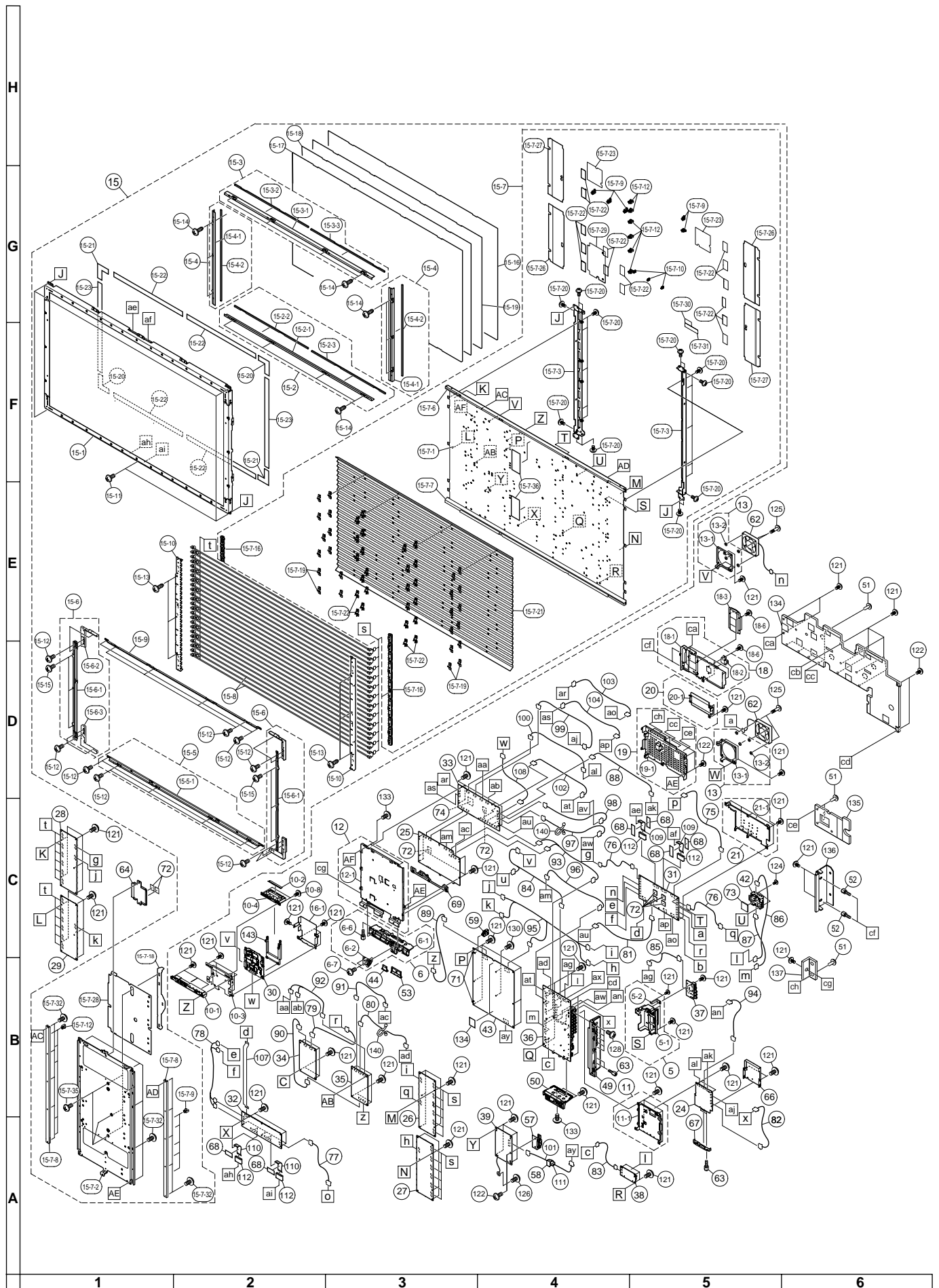
Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
15-5	CANGKA335WJ01	J	Sheet Angle Unit Ass'y	AX	18	CSLDMA548WJ01	J	MAIN PWB Shield Ass'y	AY
15-5-1	Not Available	—	Sheet Angle Unit	—	18-1	Not Available	—	MAIN PWB Shield	—
15-5-2	PSPA466WJKZ	J	Spacer, x4	AB	18-2	PRDARA104WJFW	J	Heat Sink	AF
15-6	CANGKA337WJ01	J	Sheet Angle Ass'y (Side), x2	AX	18-3	PRDARA168WJFW	J	Heat Sink	AM
15-6-1	Not Available	—	Sheet Angle (Side), x2	—	18-4	PSPAHA482WJZZ	J	Spacer	AB
15-6-2	LHLDZA419WJKZ	J	Holder	AF	18-5	PSPAHA486WJZZ	J	Spacer	AB
15-6-3	LHLDZA420WJKZ	J	Holder	AF	18-6	XBPS730P06WS0	J	Screw, x5	AA
15-6-4	XEPS730P08000	J	Screw, x4	AA	19	CSLDMA549WJ01	J	DIGITAL PWB Shield Ass'y	AT
15-7	CCHSMA156WJ01	J	Back Light Chassis Unit Ass'y	CL	19-1	Not Available	—	DIGITAL PWB Shield	—
15-7-1	Not Available	—	Back Light Chassis Unit	—	19-2	PRDARA128WJFW	J	Heat Sink	AF
15-7-2	LANGFA147WJFW	J	Center Support Angle	BD	20	CSLDMA551WJ01	J	MAIN - DIGITAL PWB Shield Ass'y	AR
15-7-3	LANGKA318WJFW	J	Side Support Angle, x2	AY	20-1	Not Available	—	MAIN - DIGITAL PWB Shield	—
15-7-4	LANGKA322WJFW	J	Fixing Metal, x2	AN	20-2	PMLT-A146WJZZ	J	Gasket L	AE
15-7-5	LANGKA323WJFW	J	Fixing Metal, x2	AN	20-3	PMLT-A147WJZZ	J	Gasket S, x3	AD
15-7-6	LANGKA391WJFW	J	Support Angle (Top)	BE	20-4	PSPAHA485WJZZ	J	Spacer	AB
15-7-7	LANGKA392WJFW	J	Support Angle (BOTTOM)	BE	20-5	PSPAHA486WJZZ	J	Spacer	AB
15-7-8	LANGKA393WJFW	J	Support Angle (Side), x2	—	21	CSLDMA603WJ01	J	LCD CONT PWB Shield Ass'y	AY
15-7-9	LHLDWA043WJKZ	J	Wire Holder, x11	AB	21-1	Not Available	—	LCD CONT PWB Shield	—
15-7-10	LHLDWA048WJKZ	J	Wire Holder, x6	AB	21-2	PSLDHA029WJFW	J	Shield, x4	AH
15-7-11	LHLDWA072WJKZ	J	Wire Holder, x13	AC	21-3	PSPAHA482WJZZ	J	Spacer, x4	AB
15-7-12	LHLDWA073WJKZ	J	Wire Holder, x9	AC	21-4	PSPAHA485WJZZ	J	Spacer, x2	AB
15-7-13	LHLDWA080WJKZ	J	Wire Holder	AB	24	DUNT KC267VJ60	—	HDMI/DVI Unit	—
15-7-14	LHLDWA087WJKZ	J	Wire Holder	AC	25	DKEYDC307VJ38	J	DIGITAL Unit	—
15-7-15	LHLDWA089WJKZ	J	Wire Holder	AD	26	DUNT KC471UJ06	—	INVERTER-1 Unit	—
15-7-16	LHLDZA401WJKZ	J	Lamp Holder (BOTTOM), x2	AN	27	DUNT KC472UJ06	—	INVERTER-2 Unit	—
15-7-17	LHLDZA402WJKZ	J	Lamp Clip, x24	AD	28	DUNT KC473UJ06	—	INVERTER-3 Unit	—
15-7-18	LHLDZA436WJKZ	J	Power Button Holder	AH	29	DUNT KC474UJ06	—	INVERTER-4 Unit	—
15-7-19	LHLDZA507WJKZ	J	Mirror Crip, x24	AD	30	DUNT KC544VJ06	J	PC CARD Unit	BX
15-7-20	LX-BZA046WJFN	J	Screw, x24	AA	31	DUNT KD001UJ02	—	TOP LCD CONTROLLER Unit	—
15-7-21	PMIR-A058WJZZ	J	Mirror	BM	32	DUNT KD002UJ02	—	BOTTOM LCD CONTROLLER Unit	—
15-7-22	PSPAHA338WJZZ	J	Clip Cover, x16	AB	33	DUNT KD003VJ02	J	MAIN Unit	CU
15-7-23	PSPAHA463WJZZ	J	Spacer, x2	AD	34	DUNT KD004VJ02	—	DC/DC1 Unit	—
15-7-24	PSPAHA480WJZZ	J	Spacer	AC	35	DUNT KD005UJ02	—	DC/DC2 Unit	—
15-7-25	PSPA459WJZZ	J	Spacer	AD	36	DUNT KD006VJ02	—	AV Unit	—
15-7-26	PZETKA094WJZZ	J	Insulator (For INV PWB), x2	AH	37	DUNT KD007UJ02	—	AV SUB Unit	—
15-7-27	PZETKA103WJZZ	J	Insulator (For INV PWB), x2	—	38	DUNT KD008UJ02	—	SP-T Unit	—
15-7-28	PZETKA111WJZZ	J	Insulator (For POWER PWB)	AN	39	DUNT KD009UJ02	—	AC-INLET Unit	—
15-7-29	PZETKA117WJZZ	J	Insulator (For AC INLET PWB)	AL	40	DUNT KD010UJ02	—	KEY_U Unit	—
15-7-30	TCAUZA031WJZZ	J	Caution Label	AB	41	DUNT KD011UJ02	—	R/C, LED Unit	—
15-7-31	TLABNA998WJZZ	J	Label	—	42	B2SX4102BT	J	1BIT AMP Unit	BL
15-7-32	XBPS730P06WS0	J	Screw, x18	AA	43	RDENCA085WJZZ	—	POWER Unit	—
15-7-33	XBPS830P08000	J	Screw, x10	AA	44	GCOVAA678WJKA	J	SD Card Cover	AE
15-7-34	XBPSN30P08000	J	Screw, x4	AA	45	GCOVAB044WJKA	J	Terminal Cover T	AV
15-7-35	XEBSN30P06000	J	Screw, x3	AA	46	GCOVAB045WJKA	J	Terminal Cover R	AT
15-8	KLMP-A029WJZZ	J	Lamp, x12	BC	47	GCOVAB046WJKA	J	Terminal Cover L	AU
15-9	LANGKA335WJFW	J	Sheet Angle (Upper)	AX	48	GCOVAB047WJKA	J	Terminal Cover C	AT
15-10	LHLDZA400WJKZ	J	Lamp Holder (Upper), x2	AP	49	GCOVAB049WJKA	J	AV Cover R	AQ
15-11	LX-BZA051WJF7	J	Screw, x4	AB	50	GCOVAB050WJKA	J	AV Cover B	AN
15-12	LX-BZA080WJF7	J	Screw, x8	AA	51	PCLICA004WJKZ	J	Ribet, x11	AC
15-13	LX-BZA081WJF7	J	Screw, x6	AA	52	LX-NZA029WJFN	J	Nut, x2	AD
15-14	LX-BZA088WJFN	J	Screw, x14	AA	53	GCOVHA042WJKA	J	CATV Card Cover	AE
15-15	LX-EZA015WJF7	J	Screw, x6	AA	54	HINDPB191WJSA	J	Model Label	AH
15-16	PCOVUA029WJZZ	J	Diffusion Panel	BL	55	LANGKA333WJFW	J	Side Angle, x2	AG
15-17	PSHEPA173WJZZ	J	Reflection/Deflection Sheet	CE	56	LANGKA332WJZZ	J	Under SP Angle L	AN
15-18	PSHEPA174WJZZ	J	Prism Sheet	BW	57	LANGQA013WJFW	J	AC INLET Angle	AH
15-19	PSHEPA175WJZZ	J	Diffusion Sheet	BB	58	LHLDWA045WJZZ	J	Core Holder	AD
15-20	PSPAGA233WJZZ	J	Shield Spacer, x2	AF	59	LHLDWA055WJKZ	J	Wire Holder POWER PWB	AC
15-21	PSPAGA234WJZZ	J	Shield Spacer, x2	AF	62	NFANR0126CEZZ	J	DC FAN, x3	AT
15-22	PSPAGA235WJZZ	J	Shield Spacer, x4	AF	63	NSFTZ0134CEFW	J	Shaft, x4	AD
15-23	PSPAGA236WJZZ	J	Shield Spacer, x2	AG	64	PRDARA166WJFW	J	Heat Sink	AN
16	CSLDMA368WJ01	J	PC Card Shield Ass'y	AM	65	PSLDMA419WJFW	J	TUNER Shield	AK
16-1	Not Available	—	PC Card Shield	—	66	PSLDMA422WJFW	J	HDMI Shield	AH
16-2	PSPAHA482WJZZ	J	Spacer	AB	67	PSLDMA423WJFW	J	HDMI Terminal Shield	AH
17	CSLDMA544WJ01	J	LCD Panel Shield Ass'y	AX	68	PSLDMA546WJZZ	J	FPC, x6	AK
17-1	Not Available	—	LCD Panel Shield	—	69	PSLDMA547WJFW	J	DIGITAL Shield	AN
17-2	PSPAHA454WJZZ	J	Spacer, x2	AB	70	PSPA210WJZZ	J	Spacer	AC
17-3	PSPAHA455WJZZ	J	Spacer, x4	AA	71	PSPANAA009WJZZ	J	Spacer, x2	AC
					72	PSPA4398WJKA	J	Spacer, x8	AK
					73	PSPA4478WJKZ	J	Spacer, x2	AP
					74	PSPA4565WJKZ	J	Spacer	AF



Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>CABINET AND MECHANICAL PARTS</b>									
<b>(Continued)</b>									
75	QCNW-C634WJQZ	J	Connecting Cord, [TOP-KEY]	AK	140	LHLDWA095WJKZ	J	Wire Holder	
76	QCNW-C635WJQZ	J	Connecting Cord, [TOP-INV], x2	AN	141	CPNLSA031WJ01	J	Speaker Panel Ass'y	CE
77	QCNW-C636WJQZ	J	Connecting Cord, [BOTTOM-RC]	AM	141-1	Not Available	—	Speaker Panel	—
78	QCNW-C644WJQZ	J	Connecting Cord, [TOP-BOTTOM]	AX	141-2	HDECQA440WJKB	J	Decoration Plate	AU
79	QCNW-D152WJQZ	J	Connecting Cord, [TOP-DCDC1]	AU	141-3	HPNC-A071WJSA	J	Punching Metal	CB
80	QCNW-D153WJQZ	J	Connecting Cord, [DCDC2-AV]	AM	141-4	PSPAHA393WJZZ	J	Spacer, x2	AF
81	QCNW-D154WJQZ	J	Connecting Cord, [MAIN-LCD CONT]	AQ	141-5	PSPAZA515WJZZ	J	Spacer	AN
82	QCNW-D155WJQZ	J	Connecting Cord, [AV-DIGITAL]	AQ	141-6	XEBSN26P06000	J	Screw, x10	AA
83	QCNW-D156WJQZ	J	Connecting Cord, [AV-SP-T]	AM	142	Not Available	—	Speaker Unit	—
84	QCNW-D157WJQZ	J	Connecting Cord, [AV-PC-CARD]	AR	142-1	CHLDZA421WJ01	J	Speaker Bracket (R) Ass'y	AP
85	QCNW-D158WJQZ	J	Connecting Cord, [AV-AV SUB]	AS	142-1-1	Not Available	—	Speaker Bracket (R)	—
86	QCNW-D159WJQZ	J	Connecting Cord, [AV-1BIT AMP]	AP	142-1-2	PSPAGA221WJZZ	J	Spacer	AC
87	QCNW-D160WJQZ	J	Connecting Cord, [AV-1BIT AMP]	AL	142-2	CHLDZA422WJ01	J	Speaker Bracket (L) Ass'y	AP
88	QCNW-D161WJQZ	J	Connecting Cord, [MAIN-DVI]	AN	142-2-1	Not Available	—	Speaker Bracket (L)	—
89	QCNW-D162WJQZ	J	Connecting Cord, [DCDC2-POWER]	AP	142-2-2	PSPAGA222WJZZ	J	Spacer	AC
90	QCNW-D163WJQZ	J	Connecting Cord, [DCDC2-DCDC1]	AM	142-3	LX-BZA075WJ01	J	Screw, x4	AE
91	QCNW-D164WJQZ	J	Connecting Cord, [DIGITAL-DCDC2]	AM	142-4	RSP-ZA086WJN2	J	Speaker	BX
92	QCNW-D165WJQZ	J	Connecting Cord, [MAIN-DCDC2]	AS	143	QCNCMA161WJSAQ	J	Card Slot	AV
93	QCNW-D166WJQZ	J	Connecting Cord, [AV-DVI]	AM	144	Not Available	—	No. Label	—
94	QCNW-D167WJQZ	J	Connecting Cord, [AV-DVI]	AH					
95	QCNW-D168WJQZ	J	Connecting Cord, [POWER-INV]	AR					
96	QCNW-D169WJQZ	J	Connecting Cord, [AV-DIGITAL]	AT					
97	QCNW-D170WJQZ	J	Connecting Cord, [MAIN-AV]	AU					
98	QCNW-D171WJQZ	J	Connecting Cord, [MAIN-AV]	AX					
99	QCNW-D172WJQZ	J	Connecting Cord, [MAIN-DVI]	AU					
100	QCNW-D173WJQZ	J	Connecting Cord, [MAIN-DVI]	AW					
101	QCNW-D174WJQZ	J	Connecting Cord, [AC INLET-POWER]	AL					
102	QCNW-D186WJQZ	J	Connecting Cord, [MAIN-AV]	AG					
103	QCNW-D224WJQZ	J	Connecting Cord, [TOP-MAIN]	AX					
104	QCNW-D225WJQZ	J	Connecting Cord, [TOP-MAIN]						
105	QCNW-D247WJQZ	J	Connecting Cord, SP CABLE (R)	AK					
106	QCNW-D248WJQZ	J	Connecting Cord, SP CABLE (L)	AL					
107	QPWBHC640WJQZ	J	FPC, [TOP-BOTTOM]	AX					
108	QPWBHD059WJQZ	J	FPC, [MAIN-PC-CARD]	AW					
109	QPWBMC494WJPZ	J	FPC, [TOP-PANEL], x2	AM					
110	QPWBMC534WJPZ	J	FPC, [BOTTOM-PANEL], X2	AP					
111	RCORFA012WJZZ	J	Core	AG					
112	RCORFA039WJZZ	J	Core, X4	AG					
113	CANGKA331WJ01	J	SP Angle Ass'y	AP					
113-1	Not Available	—	SP Angle	—					
113-2	PSPAHA484WJZZ	J	Spacer	AB					
115	GCOVAA918WJKA	J	Bracket Cover (L)	AN					
116	GCOVAA919WJKA	J	Bracket Cover (R)	AN					
117	XBBS840P18000	J	Screw, x4	AB					
118	XBBS840P10000	J	Screw, x2	AB					
119	XBBS840P14000	J	Screw, x8	AB					
120	XBBSN50P12JS0	J	Screw, x4	AF					
121	XBPS730P06WS0	J	Screw, x103	AA					
122	XBPS730P08JS0	J	Screw, x4	AB					
123	XBPS740P12JS0	J	Screw, x1	AB					
124	XBPSN30P04J00	J	Screw, x2	AA					
125	XBPSN30P20XS0	J	Screw, x6	AB					
126	XBSS830P08000	J	Screw, x2	AA					
127	XCBS940P25000	J	Screw, x5	AB					
128	XEBS930P10000	J	Screw, x10	AA					
129	XEBS940P20000	J	Screw, x13	AB					
130	XEBSN30P06000	J	Screw, x2	AA					
131	XEBSN30P10000	J	Screw, x18	AA					
132	XEBS940P12000	J	Screw, x4	AB					
133	XBBS830P06000	J	Screw, x5	AA					
134	PSLDMA639WJN1	J	Back Shield Ass'y (October Production)						
134	PSLDMA658WJN1	J	Back Shield Ass'y (November Production)						
135	PSLDMA643WJN1	J	Sub Back Shield Ass'y	AX					
136	CSLDMA642WJ02	J	Shield	AQ					
137	CSLDMA645WJ01	J	Shield	AL					
138	PSPAZA551WJZZ	J	Spacer, x4	AD					
139	PSPAZA534WJZZ	J	Spacer, x2	AC					



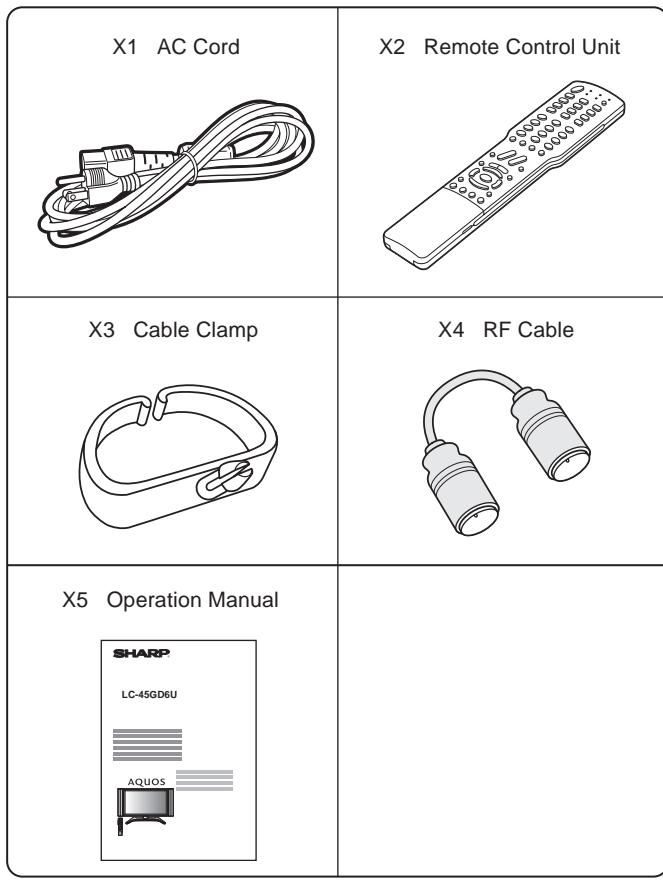




Ref. No.	Part No.	★	Description	Code
<b>PACKING PARTS</b> <b>(NOT REPLACEMENT ITEM)</b>				
S1	SPAKCB722WJZZ	—	Packing Case (Top)	—
S2	SPAKCB673WJZZ	—	Packing Case (Bottom)	—
S3	SPAKPA423WJZZ	—	Wrapping Paper (Set)	—
S4	SPAKPA377WJZZ	—	Wrapping Paper (Stand Side)	—
S5	SPAKPA458WJZZ	—	Wrapping Paper (Top)	—
S6	SPAKXA657WJZZ	—	Buffer Material (Top)	—
S7	SPAKXA658WJZZ	—	Buffer Material (Bottom)	—
S8	SPAKXA659WJZZ	—	Buffer Material (Stand Side)	—
S9	SPAKFA687WJZZ	—	Packing Case (for Accessory)	—
S10	TLABKA013WJZZ	—	No. Label	—
S11	TLABK0001TAZZ	—	No. Label, x2	—
S12	SPAKL0023CEZZ	—	Joint, x4	—

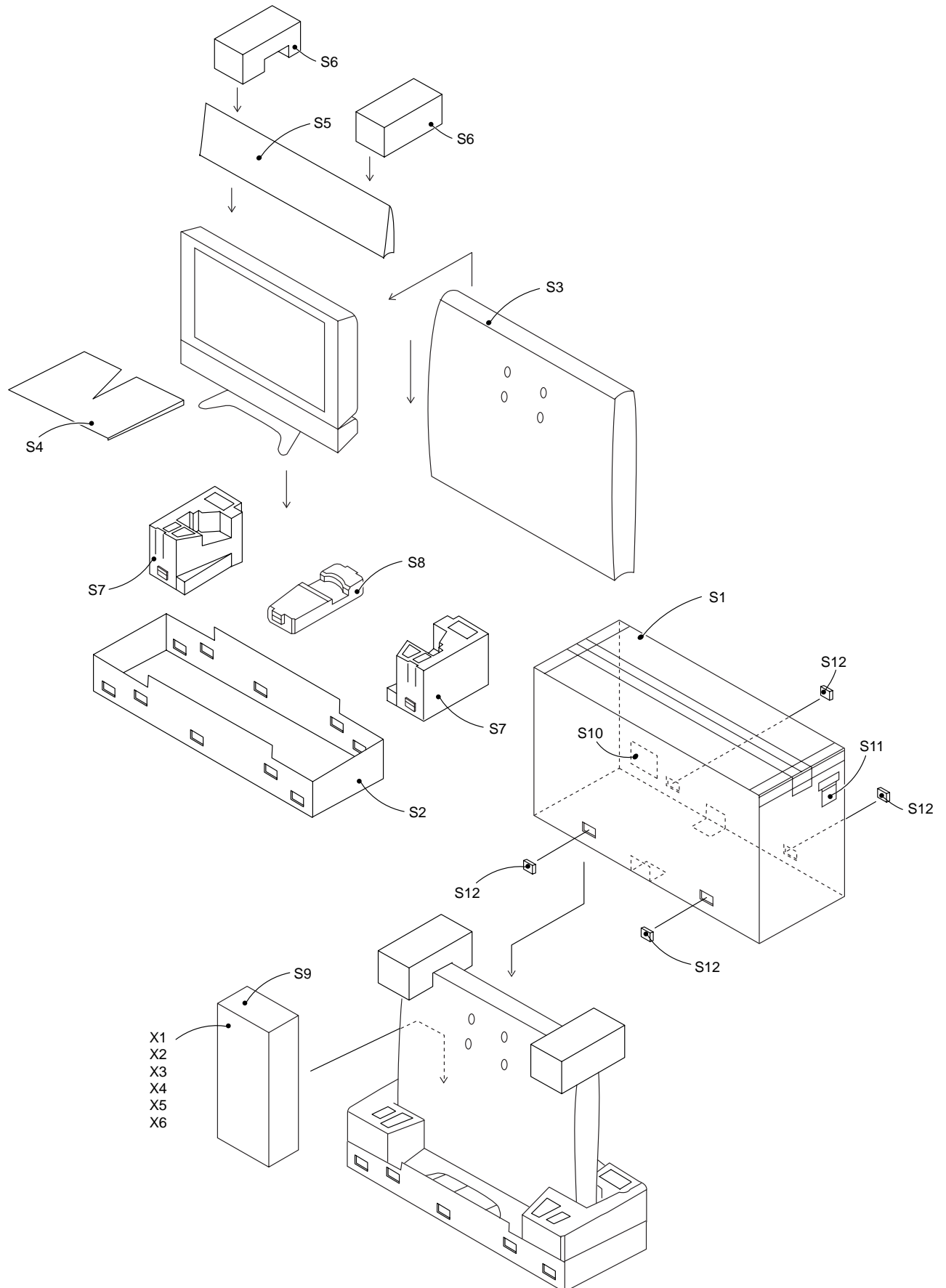
## SUPPLIED ACCESSORIES

⚠ X1	QACCD A036WJPZ	J	AC Cord	AT
X2	RRMCGA242WJSA	J	Remote Control Unit	BC
X3	LHLDW0110CESD	J	Cable Clamp	AE
X4	QCNWGA061WJZZ	J	RF Cable	AL
X5	TiNS-B694WJZZ	J	Operation Manual	BB
X6	TCAD E A028WJN1	J	Registration Card	AD



Ref. No.	Part No.	★	Description	Code
<b>SERVICE JIGS</b> <b>(USE FOR SERVICING)</b>				
QCNW-C222WJQZ	J	80pins L=1000mm	[LCD CONT PWB] to [LCD Panel]	AW
QCNW-C225WJQZ	J	5pins L=1000mm	[LCD CONT PWB] to [KEY PWB]	AQ
QCNW-C329WJQZ	J	15pins L=1000mm	[AV PWB] to [1Bit Amp]	AW
QCNW-C332WJQZ	J	12pins L=1000mm	[AV PWB] to [Sub-AV Amp]	AY
QCNW-C333WJQZ	J	14pins L=1000mm	[LCD CONT PWB] to [MAIN PWB]	BA
QCNW-C334WJQZ	J	5pins L=1000mm	[CPU PWB] to [Sub-AV PWB]	AU
QCNW-C485WJQZ	J	7+12 to 16pins L=800mm	[LCD CONT PWB] to [POWER Unit]	AY
QCNW-C486WJQZ	J	8 to 4pins L=800mm	[LCD CONT PWB] to [INV GND Unit]	AP
QCNW-C487WJQZ	J	9pins L=300mm	[LCD CONT PWB] to [AV PWB]	AW
QCNW-C741WJQZ	J	9pins L=800mm	[CPU PWB] to [Power Unit]	AT
QCNW-C492WJQZ	J	33pins FFC L=800mm	[LCD CONT PWB] to [MAIN PWB]	AM
QCNW-C493WJQZ	J	45pins FFC L=600mm	[LCD CONT PWB] to [MAIN PWB]	AM
QCNW-C845WJQZ	J	4pins L=1000mm	[LCD CONT PWB] to [AV PWB]	AS
QCNW-C846WJQZ	J	40pins L=1000mm	[AV PWB] to [MAIN PWB]	BL
QCNW-C847WJQZ	J	20 to 16pins L=800/1000mm	[POWER Unit] to [AV/ MAIN PWB]	BG

# PACKING OF THE SET



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